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OM nucleic - nucleic search, using sw model

Run on: August 17, 2004, 07:21:57 ; Search time 81 Seconds  
(without alignments)  
2363.680 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacacttcttaaac.....aaatgaccccgccgagga 345

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 692709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:\*  
1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	309	89.6	309	3	US-08-836-075A-49
2	261.6	75.8	652	3	US-08-836-075A-59
3	239.4	75.2	573	2	US-08-290-665A-136
4	239.4	75.2	573	4	US-08-157-235-5
5	259.4	75.2	573	5	PCT-US95-10398-136
6	257.8	74.7	573	2	US-08-290-665A-141
7	257.8	74.7	573	5	PCT-US95-10398-141
8	257.8	74.7	803	1	US-08-157-235-4
9	257.8	74.7	803	1	US-08-157-235-5
10	256.2	74.3	573	2	US-08-290-665A-135
11	256.2	74.3	573	2	US-08-290-665A-137
12	256.2	74.3	573	2	US-08-290-665A-138
13	256.2	74.3	573	5	PCT-US95-10398-135
14	256.2	74.3	573	5	PCT-US95-10398-137
15	256.2	74.3	573	5	PCT-US95-10398-138
16	256.2	74.3	1037	1	US-08-462-195-1
17	256.2	74.3	1037	2	US-08-635-883-1
18	256.2	74.3	1037	3	US-09-127-829-1
19	254.6	73.8	573	2	US-08-290-665A-107
20	254.6	73.8	573	2	US-08-290-665A-114
21	254.6	73.8	573	2	US-08-290-665A-119
22	254.6	73.8	573	5	PCT-US95-10398-107
23	254.6	73.8	573	5	PCT-US95-10398-114
24	254.6	73.8	573	5	PCT-US95-10398-119
25	254.6	73.8	803	1	US-08-157-235-2
26	253.6	73.5	573	2	US-08-290-665A-139
27	253.6	73.5	573	5	PCT-US95-10398-139

28	253.6	73.5	803	1	US-08-157-235-6
29	253	73.3	573	2	US-08-290-665A-113
30	253	73.3	573	5	PCT-US95-10398-113
31	253	73.3	803	1	US-08-157-235-1
32	253	73.3	1539	2	US-08-470-426B-17
33	253	73.3	1863	2	US-08-470-426B-14
34	253	73.3	2433	3	US-08-612-973-49
35	253	73.3	2433	3	US-08-927-597-49
36	251.4	72.9	345	1	US-08-324-977-7
37	251.4	72.9	345	2	US-08-384-616-7
38	251.4	72.9	345	2	US-08-904-686A-7
39	251.4	72.9	345	3	US-09-315-850-7
40	251.4	72.9	573	2	US-08-290-665A-108
41	251.4	72.9	573	5	PCT-US95-10398-108
42	251.4	72.9	803	1	US-08-157-235-3
43	251.4	72.9	1167	1	US-08-324-977-9
44	251.4	72.9	1167	2	US-08-384-616-9
45	251.4	72.9	1167	2	US-08-904-686A-9

#### ALIGNMENTS

#### RESULT 1

US-08-836-075A-49  
; Sequence 49, Application US/08836075A  
; Patent No. 6180768  
; GENERAL INFORMATION:  
; APPLICANT: MAERTENS, GEERT  
; APPLICANT: STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
; TITLE OF INVENTION: AGENTS  
; NUMBER OF SEQUENCES: 207  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARNOLD, WHITE & DURKEE  
; STREET: P.O. BOX 4433  
; CITY: HOUSTON  
; STATE: TEXAS  
; COUNTRY: USA  
; ZIP: 77210-4433  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Microsoft Word 6.0 / ASCII text output  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/836,075A  
; FILING DATE: 21 Apr 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/EP95/04155  
; FILING DATE: 23 Oct 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: EP 94870166.9  
; FILING DATE: 21 Oct 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: EP 95870076.7  
; FILING DATE: 28 Jun 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KAMMERER, PATRICIA A.  
; REGISTRATION NUMBER: 29,775  
; REFERENCE/DOCKET NUMBER: INNS:004  
; INFORMATION FOR SEQ ID NO: 49:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 309 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; HYPOTHEetical: NO  
; ANTI-SENSE: NO  
US-08-836-075A-49

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Query Match      89.6%; Score 309; DB 3; Length 309;
Best Local Similarity 100.0%; Pred. No. 1.7e-78;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGAGCACACTTCTTAACACACAAAGAAAAACCAAAAGAAACACCAACCCCGGCCACAGG 60
Db 1 ATGAGCACACTTCTTAACACACAAAGAAAAACCAAAAGAAACACCAACCCCGGCCACAGG 60
QY 61 ACCTTAAGTTCCAGCGCGGGTCCAGATCGTTGGTGGAGTTTACGTCTACCAACGACAGG 120
Db 61 ACCTTAAGTTCCAGCGCGGGTCCAGATCGTTGGTGGAGTTTACGTCTACCAACGACAGG 120
QY 121 GCCCCCAAGTTGGGTGTCGTCAGTGGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGTA 180
Db 121 GCCCCCAAGTTGGGTGTCGTCAGTGGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGTA 180
QY 181 GGGCCCAACCCATCCCGAGGCGCGCGGCAACCGAGGCGAGTCTCTGGGTCTAGCCCGGT 240
Db 181 GGGCCCAACCCATCCCGAGGCGCGCGGCAACCGAGGCGAGTCTCTGGGTCTAGCCCGGT 240
QY 241 ACCCTTGGCCCTTATATGGGAATGAGGGCTGCGGTGGCGAGGTTGGCTCTCTGTCGCCGC 300
Db 241 ACCCTTGGCCCTTATATGGGAATGAGGGCTGCGGTGGCGAGGTTGGCTCTCTGTCGCCGC 300
QY 301 GCGGCTCTC 309
Db 301 GCGGCTCTC 309

RESULT 2
US-08-836-075A-59
; Sequence 59, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERET
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 59:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 652 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
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; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-836-075A-59
Query Match      75.8%; Score 261.6; DB 3; Length 652;
Best Local Similarity 86.7%; Pred. No. 5.7e-65;
Matches 299; Conservative 0; Mismatches 45; Indels 1; Gaps 1;
QY 1 ATGAGCACACTTCTTAACACACAAAGAAAAACCAAAAGAAACACCAACCCCGGCCACAG 59
Db 239 ATGAGCACAGATCTTAACACCTCAAGAAAAACCAAAAGAAACCAACCCCGGCCACAG 298
QY 60 GACGTTAAGTTCCAGCGCGGGTCCAGATCGTTGGTGGAGTTTACGTCTACCAACGACAG 119
Db 299 GACGTTAAGTTCCAGCGCGGGTCCAGATCGTTGGTGGAGTTTACGTCTACCGCGGAG 358
QY 120 GGGCCCAAGTTGGGTGTCGTCAGTGGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 179
Db 359 GGGCCCAAGTTGGGTGTCGTCAGTGGCAAGACTTCCGAGCGGTGCGCAACCTCGTGGG 418
QY 180 AGGCGCAACCCATCCCGAGGCGCGCGGCAACCGAGGCGAGTCTCTGGGTCTAGCCCGG 239
Db 419 AGGCGCAACCCATCTTCCAAAGGAGCGCGGAGGAGGTCCTGGGCGCAGGTCCTGTCCT 478
QY 240 TACCTTGGGCGCTTATATGGGAATGAGGGCTGCGGGTGGCGAGGTCCTGTCTCTCTCCCG 299
Db 479 TACCTTGGGCGCTTATATGGTAACGAGGTCGCGGTGGGCGAGTGGGTCCTGTCCTCTCC 538
QY 300 GCGGCTCTCGCGCTCGTGGGCGCCAAATGACCCCGCGCGCAGG 344
Db 539 GCGGCTCTCGCTCGTGGGTCCTACTGACCCCGCGCGTAGG 583

RESULT 3
US-08-230-665A-136
; Sequence 136, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
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1 ATGACGACACATTCCTTAACACCAAGAAAGAAACCAAAAGAAACACCAACCC-CCGGCCACAG 59  
Db 1 ATGACGACGAATCTTAACCTCAAGAAAGAAACCAACAGTAAACCAACCCGCCGCCACAG 60  
QY 60 GACGTAAAGTTCCAGGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTACCAACGAGG 119  
Db 61 GAGCTCAAGTTCCCGGCGGTGTGTTCAGATCGTTGGTGGAGTTTACTTGTTCGGCGCAGG 120  
QY 120 GGCCTCCAGTTGGGTGTGCTGTCAGTGGCGCAAGACTTCCGAGCGGTTCGCAACTCGCACT 179  
Db 121 GGCCTCCAGTTGGGTGTGTCGCGGCGCACTAGAAAGACTTCCGAGCGGTTCGCAACTCGTGA 180  
QY 180 AGGCGCCCAACCATCCCAAGCGCGCGCGCAACGAGGCGAGGTCTCTGGGCTCAGCCCGGG 239  
Db 181 AGGCGACAGCTATCCCAAGGCTCGCGCGCGCGAGGCGAGGTCTCTGGGCTCAGCCCGGG 240  
QY 240 TACCTTGGCCCTTATATGGAATGAGGGTTCGGGTGGCGAGGTGGCTCTCTGTCCCGG 299  
Db 241 TACCTTGGCCCTTATGGAATGAGGGTTCGGGTGGCGAGGTTCGGGTGGCGAGGTTCCTGTCCCG 300  
QY 300 CGCGGCTCTCGCGCTGTTGGGGCCCAATGACCCCGCGCAGG 344  
Db 301 CGCGGCTCTCGCGCTAGTTGGGGCCCACTGACCCCGCGGTAGG 345

RESULT 5  
PCT-US95-10398-136  
; Sequence 136, Application PC/TUS9510398  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10398  
; FILING DATE: 15-AUG-1995  
; CLASSIFICATION:  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: 08/086,428  
; FILING DATE: 29 JUNE 1993  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: 08/290/665  
; FILING DATE: 15 AUGUST 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: RICHARD W. BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; TELEX: 421792  
; INFORMATION FOR SEQ ID NO: 136:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 573 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

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;
; ORIGINAL SOURCE:
; ORGANISM: hominids
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match      75.2%; Score 259.4; DB 5; Length 573;
Best Local Similarity 86.4%; Pred. No. 2.3e-64;
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAAC-CCGCGCACAG 59
Db 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAAC-CCGCGCACAG 60
QY 60 GACGTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 119
Db 61 GACGTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
QY 120 GCGCCCGAGTTGGGTGCGTGCAGTGCAGACACTTCCAGCGGTGCGCAACTCGCAGT 179
Db 121 GCGCCCGAGTTGGGTGCGTGCAGTGCAGACACTTCCAGCGGTGCGCAACTCGCAGT 180
QY 180 AGCGCGCACACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGCTCAGCGCGG 239
Db 181 CGACGACAGCTATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGCTCAGCGCGG 240
QY 240 TACCTTGGCCCCCTATATGGAATGAGGCGTGGGCGAGGCTCGTCTGCTCCCG 299
Db 241 TACCTTGGCCCCCTATATGGAATGAGGCGTGGGCGAGGCTCGTCTGCTCCCG 300

RESULT 6
US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: hominids
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-141

Query Match      74.7%; Score 257.8; DB 2; Length 573;
Best Local Similarity 86.1%; Pred. No. 6.5e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAAC-CCGCGCACAG-G 59
Db 1 ATGAGCACAAATCTTAACCTCAAGAAACCAAAAGAAACCAACCAACCGTCCGCCATG 60
QY 60 GACGTTAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTTACCCACG 119
Db 61 GATGTGAATTTCCGCGCGCGCCAGATCGTTGGCGGAGTTTACTTGTCTGCGCGCAGG 120
QY 120 GCGCCCGAGTTGGGTGCGTGCAGTGCAGACACTTCCAGCGGTGCGCAACTCGCAGT 179
Db 121 GCGCCCGAGTTGGGTGCGTGCAGTGCAGACACTTCCAGCGGTGCGCAACTCGCAGT 180
QY 180 AGCGCGCACACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGCTCAGCGCGG 239
Db 181 AGCGCTCAGCTATCCCGAGCGCGCGCGGTGCGAGGCGAGTCTCGGCTCAGCGCGG 240
QY 240 TACCTTGGCCCCCTATATGGAATGAGGCGTGGGCGAGGCTCGGCTCGGCTCGGCT 299
Db 241 TACCTTGGCCCCCTTACGCAATGAGGCGTGTGGGTGGGCGAGGCTCGGCTCGGCT 300

RESULT 7
PCT-US95-10398-141
; Sequence 141, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290,665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
```

```

; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
; PCT-US95-10398-141

Query Match          74.7%; Score 257.8; DB 5; Length 573;
Best Local Similarity 86.1%; Pred. No. 6.5e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

QY      1  ATGAGCACATCTCTTAAACACACAGAAAAACCAAAGAAACCAACACCCGCCACA-G 59
Db      1  ATGAGCACAAATCCTAAACCTCAAGAAAAACCAACGTAACCAACCGTCGCCCATG 60

QY      60  GAGCTTAAGTTCCAGCGCGGTGCAGTCGTTGTTGGAGTTTACGTGCTACCAACGAG 119
Db      61  GATGTAAATTCGCGCGCGCGCCAGATCGTTGGCGAGTTTACTTGCTGCCGCGCAGG 120

QY      120  GGCCCCCAGTTGGGTGTGCGTGCAGTGCACAAGACTTCCGAGCGGTTCGAACCTCGCAGT 179
Db      121  GGCCCCCGGTGGGTGTGCGCGCAGCTCGAAGACTTCGAGCGGTTCACAACTCGTGCG 180

QY      180  AGCGCGCAACCCATCCCAAGGGCGCGCGAACCGAGGGCAGGTCCTGGGCTCAGCCCGGG 239
Db      181  AGCGGTGACGCTATCCCAAGGCGCGCCCGGTCCGAGGGCAGGTCTTGGGCTCAGCCCGGG 240

QY      240  TACCTTTGGCCCCCTATATGGGAATGAGGGGTGCGGGTGGCGAGGTGGTCTCTGTCCCCG 299
Db      241  TACCTTTGGCCCCCTTACGGAATGAGGGCTGTGGTGGCGAGGTGGTCTCTGTCCCCC 300

QY      300  CGGGGCTCTGCCCGGTCTGTGGGGCCCAATGACCCCGCGCGCAGG 344
Db      301  CGCGGTTCCAGGCGGTCTTTGGGGCCCAATGATCCCGCGGTAGG 345

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RESULT 8  
US-08-157-235-4  
; Sequence 4, Application US/08157235  
; Patent No. 5550016  
; GENERAL INFORMATION:  
; APPLICANT: OKAMOTO, Hiroaki  
; TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND  
; TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES,  
; TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES  
; NUMBER OF SEQUENCES: 20  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Beverage, DeGrandi, Weillacher & Young  
; STREET: 1850 M Street N.W., Suite 300  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY:  
; ZIP: 20036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/157,235  
; FILING DATE: 24-NOV-1993  
; CLASSIFICATION: 435

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 354370/92
; FILING DATE: 27-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Robert G. Weilacher
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-49206
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-659-2811
; TELEFAX: 202-659-1462
; TELEX: 64470
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 803 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-157-235-4
;
Query Match 74.7%; Score 257.8; DB 1; Length 803;
Best Local Similarity 86.1%; Pred. No. 7.2e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTTAACACCAAGAAAAACCAAAAGAAAACACCAACC-CCGGCCACAG 59
DB 298 ATGAGCACACTTCCTAAACTCAAGAAAAACCAAAAGAAAACACATCCGTCGCCACAG 357
QY 60 GACGTTAAGTCCGAGCGCGGTGAGATCGTTGTFGGAGTTTACGTGCTACACGACG 119
DB 358 GAGCTCAAGTCCCGGGTGGCGGACAGATCGTTGTGGAGTATACGTGTTGCCGGCAGG 417
QY 120 GCCCCCCAGTTGGGTGTCAGTGGCAGACAGTTCGAGCGGTCCGAACCTCGCACT 179
DB 418 GCCCACGATTGGGTGTGGCGCGCAGCGCTAAACTTCTGAAACGGTCACAGCTCGCGGA 477
QY 180 AGCGCGCAACCCATCCCCAGGCGCGGCCGAAACCGAGGGCAGGTCTCTGGGCTCAGCCCGGG 239
DB 478 CGACGACAGCCTATCCCCAAGCGCGTCGGAGCGAAGGCCGTCTGGCTCAGCCCGGG 537
QY 240 TACCCTTGCCCCCTATATGGGAATAGGGCTCGGGTGGGCGAGGTGGCTCTCTGCCCG 299
DB 538 TACCCTTGCCCCCTATATGGTAACGAGGGCTCGCGGTGGGCGAGGTGGCTCTGTCCCCA 597
QY 300 CGCGGCTCTCGCCCGTCGTGGGGGCCAAATGATCCCCCGGCGCAGG 344
DB 598 CGGGGCTCCCGTCCATCTCTGGGGGCCAAATGATCCCCCGGCGAGG 642

RESULT 9
US-08-157-235-5
; Sequence 5, Application US/08157235
; Patent No. 5550016
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND
; TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES,
; TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Beveridge, DeGrandi, Weilacher & Young
; STREET: 1850 M Street N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY:
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/157,235
; FILING DATE: 24-NOV-1993

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RESULT 9  
 US-08-157-235-5  
 ; Sequence 5, Application US/08157235  
 ; Patent No. 5550016  
 ; GENERAL INFORMATION:  
 ; APPLICANT: OKAMOTO, Hiroaki  
 ; TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND  
 ; TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES,  
 ; TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES  
 ; NUMBER OF SEQUENCES: 20  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Beveridge, DeGrandi, Weilacher & Young  
 ; STREET: 1850 M Street N.W., Suite 800  
 ; CITY: Washington  
 ; STATE: D.C.  
 ; COUNTRY:  
 ; ZIP: 20036  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/157,235  
 ; FILING DATE: 24-NOV-1993

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; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 354370/92
; FILING DATE: 27-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Robert G. Wellacher
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-49206
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-659-2811
; TELEFAX: 202-659-1462
; TELEX: 64470
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 803 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-157-235-5

Query Match          74.7%; Score 257.8; DB 1; Length 803;
Best Local Similarity 86.1%; Pred. No. 7.2e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 59
DB 298 ATGAGCACACTTCTTAACACTCAAGAAACCAAAAGAAACCAACCAATCCGTCGCCACAG 357
QY 60 GAGTTAAGTTCCAGCGCGGTGATGCTGTTGGTGGAGTTTACGTGTACCAACGCGAGG 119
DB 358 GAGCTCAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTGCGCGCAGG 417
QY 120 GGCCCCCAGTTGGGTGCGTGCAGTCGCGCAAGACTTCGAGCGGTGCGCAACTCGCAGT 179
DB 418 GGCCCCAGTTGGGTGCGCGGACGCGTAAACTTCTGAACGCTCACAGCCTCGCGA 477
QY 180 AGCGGCCAACCCATCCCGAGGGCGCGCGAACCGAGGGAGGTCTTGGGCTCAGCCCGG 239
DB 478 CGACGACAGCCTATCCCGAAGGCGCGTCGAGCGAAGGCGGTCCTTGGGCTCAGCCCGG 537
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTTGCTCTGTCCTCCCG 299
DB 538 TACCTTGGCCCTCTATGTAACGAGGCTGCGGTGGCGAGGAGTCTCTGTCTCCCG 597
QY 300 CGCGGCTCTCGCCCGTGTGGGGCCCAAAATGACCCCGCGCAGG 344
DB 598 CGCGGCTCCGCTCATCATGGGGCCCAAAATGACCCCGCGCAGG 642

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RESULT 10
US-08-290-665A-135
; Sequence 135, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS

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; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 135:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: hominids
; INDIVIDUAL ISOLATE: HK10
; US-08-290-665A-135

Query Match          74.3%; Score 256.2; DB 2; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.1e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 59
DB 1 ATGAGCACACTTCTTAACACTCAAGAAACCAAAAGAAACCAACCAATCCGTCGCCACAG 60
QY 60 GACGTTAAGTTCCAGCGCGGTGATGCTGTTGGTGGAGTTTACGTGTACCAACGAGG 119
DB 61 GACGTTAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTGCGCGCAGG 120
QY 120 GGCCCCCAGTTGGGTGCGTGCAGTCGCGCAAGACTTCCGAGCGGTGCGCAACTCGCAGT 179
DB 121 GGCCCCAGTTGGGTGCGCGGACGCGTAAACTTCTGAACGCTCACAGCCTCGCGA 180
QY 180 AGCGGCCAACCCATCCCGAGGGCGCGCGAACCGAGGGAGGTCTTGGGCTCAGCCCGG 239
DB 181 CGACGACAGCCTATCCCGAAGGCGCGTCGAGCGAAGGCGGTCCTTGGGCTCAGCCCGG 240
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTTGCTCTGTCCTCCCG 299
DB 241 TACCTTGGCCCTCTATGTAACGAGGCTGCGGTGGCGAGGATGGTCTCTGTCCCCA 300
QY 300 CGCGGCTCTCGCCCGTGTGGGGCCCAAAATGACCCCGCGCAGG 344
DB 301 CGCGGCTCCGCTCATCTTGGGGCCCAAAAGCAACCCCGCGCAGG 345

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RESULT 11
US-08-290-665A-137
; Sequence 137, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

```



;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: MORGAN & FINNEGAN  
;; STREET: 345 PARK AVENUE  
;; CITY: NEW YORK  
;; STATE: NEW YORK  
;; COUNTRY: USA  
;; ZIP: 10154  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: FLOPPY DISK  
;; COMPUTER: IBM PC COMPATIBLE  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: WORDPERFECT 5.1  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: PCT/US95/10398  
;; FILING DATE: 15-AUG-1995  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/086,428  
;; FILING DATE: 29 JUNE 1993  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/290/665  
;; FILING DATE: 15 AUGUST 1994  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: RICHARD W. BORK  
;; REGISTRATION NUMBER: 36,459  
;; REFERENCE/DOCKET NUMBER: 2026-4116  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (212) 758-4800  
;; TELEFAX: (212) 751-6849  
;; TELEX: 421792  
;; INFORMATION FOR SEQ ID NO: 135:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 573 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; ORGANISM: homosapiens  
;; INDIVIDUAL ISOLATE: HK10  
PCT-US95-10398-135

Query Match 74.3%; Score 256.2; DB 5; Length 573;  
Best Local Similarity 85.8%; Pred. No. 1.8e-63;  
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;  
QY 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACCAACC-CGGGCCACAG 59  
Db 1 ATGAGCACACTTCTTAACCTCAAGAAACCAAAAGAAACCAACCAACCCTCGTCCGCCACAG 60  
QY 60 GACGTTAAGTTCCAGCGCGGTACAGATCGTTGGTGGAGTTTACGTGTACCAACGACAG 119  
Db 61 GACGTTAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTGGCGGACAG 120  
QY 120 GCGCCCAAGTTGGGTGGTGGTGGCGAGACTTCCGAGCGGTCCGAACTCGAGT 179  
Db 121 GCGCCCAAGTTGGGTGGTGGTGGCGAGCGCTAAACCTTCTGAACGGTTCGAGCTCGCGGA 180  
QY 180 AGCGGCCAACCCATCCCAAGCGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 239  
Db 181 CGACGACAGCTTATCCCAAGCGCGGTTCGAGGAGGCGCGTCTGGGCTCAGCCCGGG 240  
QY 240 TACCCCTGGCCCTATATGGGAATGAGGCTCGGGTGGGAGGCTGCTCTGTCTCCCG 299  
Db 241 TACCCCTGGCCCTCTATGGTAACGAGGCTCGGGTGGGAGGAGTGGCTCTGTCTCCCA 300  
QY 300 CGCGGCTCTCGCCGCTGCTGGGCGCCCAATGACCCCGCGGAGG 344  
Db 301 CGCGGCTCTCGCTCTCTTGGGCGCCCAACGACGACCCCGCGGAGG 345

RESULT 14  
PCT-US95-10398-137  
Sequence 137, Application PC/TUS9510398

;; GENERAL INFORMATION:  
;; APPLICANT: BUKH, J., MILLER, R.H. AND  
;; APPLICANT: PURCELL, R.H.  
;; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
;; NUMBER OF SEQUENCES: 263  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: MORGAN & FINNEGAN  
;; STREET: 345 PARK AVENUE  
;; CITY: NEW YORK  
;; STATE: NEW YORK  
;; COUNTRY: USA  
;; ZIP: 10154  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: FLOPPY DISK  
;; COMPUTER: IBM PC COMPATIBLE  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: WORDPERFECT 5.1  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: PCT/US95/10398  
;; FILING DATE: 15-AUG-1995  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/086,428  
;; FILING DATE: 29 JUNE 1993  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/290/665  
;; FILING DATE: 15 AUGUST 1994  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: RICHARD W. BORK  
;; REGISTRATION NUMBER: 36,459  
;; REFERENCE/DOCKET NUMBER: 2026-4116  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (212) 758-4800  
;; TELEFAX: (212) 751-6849  
;; TELEX: 421792  
;; INFORMATION FOR SEQ ID NO: 137:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 573 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; ORIGINAL SOURCE:  
;; ORGANISM: homosapiens  
;; INDIVIDUAL ISOLATE: S2  
PCT-US95-10398-137

Query Match 74.3%; Score 256.2; DB 5; Length 573;  
Best Local Similarity 85.8%; Pred. No. 1.8e-63;  
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;  
QY 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACCAACC-CGGGCCACAG 59  
Db 1 ATGAGCACACTTCTTAACCTCAAGAAACCAAAAGAAACCAACCAACCCTCGTCCGCCACAG 60  
QY 60 GACGTTAAGTTCCAGCGCGGTACAGATCGTTGGTGGAGTTTACGTGTACCAACGACAG 119  
Db 61 GACATCAAGTTCCCGGTGGCGACAGATCGTTGGTGGAGTATACGTGTGGCGGACAG 120  
QY 120 GCGCCCAAGTTGGGTGGTGGTGGTGGCGAGACTTCCGAGCGGTTCGAACTCGAGT 179  
Db 121 GCGCCCAAGTTGGGTGGTGGTGGCGAGCGCTAAACCTTCTGAACGGTTCGAGCTCGCGGA 180  
QY 180 AGCGGCCAACCCATCCCAAGCGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 239  
Db 181 CGGCGACAGCTTATCCCAAGCGCGGTTCGAGGAGGCGCGATCTCTGGGCTCAGCCCGGG 240  
QY 240 TACCCCTGGCCCTATATGGGAATGAGGCTCGGGTGGGAGGCTGCTCTGTCTCCCG 299  
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QY 300 CGCGCTCTCGCCGCTCGTGGGGCCCAATGACCCCGGGCGAGG 344  
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## RESULT 15

PCT-US95-10398-138  
Sequence 138, Application PC/TUS9510398  
GENERAL INFORMATION:  
APPLICANT: BUKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/10398  
FILING DATE: 15-AUG-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/086,428  
FILING DATE: 29 JUNE 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/290/665  
FILING DATE: 15 AUGUST 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 138:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORGANISM: hominids  
ORGANISM: hominids  
INDIVIDUAL ISOLATE: DK12  
PCT-US95-10398-138

Query Match 74.3%; Score 256.2; DB 5; Length 573;  
Best Local Similarity 85.8%; Pred. No. 1.8e-63;  
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAACCAAGAAACCAACCAACC-CGCGGCACAG 59  
|||||  
Db 1 ATGAGCACACTTCTTAACACTCAAGAAACCAAGAAACCAACCAACCATCGTCCGCCACAG 60  
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QY 60 GAGCTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTGTACCAACGAGG 119  
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Db 61 GAGCTAAGTTCCCGGTGGCGGACAGATCGTTGGTGGAGTATACGTGTTCCGCGCAGG 120  
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QY 120 GGCCCCCAGTTGGGTGGCGGTGCGAGTCGCGAAGACTTCGCGCGGTCCGACCTCGCAGT 179  
|||||

Db 121 GGCCCCACGATTGGGTGTGCGCGCGACGCGTAAACTTCTGAACGCTCACAGCTCGCGGA 180  
QY 180 AGGCGCCCAACCCATCCCGAGGCGCGCGAAACCGAGGCGAGGTCTCTGGGCTCAGCCCGGG 239  
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Db 181 CGGCGACAGCCTATCCCAAGGCGGTGGAGCGGAGCCGCTCTGGGCTCAGCTGGG 240  
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QY 300 CGCGGCTCTCGCCGCTCGTGGGCGCCCAATGACCCCGGGCGCAGG 344  
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 17, 2004, 11:09:51 ; Search time 355 Seconds

(without alignments)

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Title: US-09-873-224A-147

Perfect score: 345

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IDENTITY NUC

Gapop 10\*0 , Gapext 1.0

Searched: 3225727 seqs, 2453303834 residues

Total number of hits satisfying chosen parameters: 6451454

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	334	96.8	346	10	US-09-899-046-147
3	334	96.8	346	10	US-09-878-281-147
4	309	89.6	309	9	US-09-851-138-49
5	261.6	75.8	652	9	US-09-851-138-59
6	260.2	75.4	499	10	US-09-899-046-165
7	260.2	75.4	499	10	US-09-878-281-165
8	260.2	75.4	499	13	US-09-873-224-165
9	259.4	75.2	573	10	US-09-194-949-5
10	254.6	73.8	499	10	US-09-899-046-163
11	254.6	73.8	499	10	US-09-878-281-163
12	254.6	73.8	499	13	US-09-873-224-163
13	253.6	73.5	498	10	US-09-899-046-193
14	253.6	73.5	498	10	US-09-878-281-193

15	253.6	73.5	498	13	US-09-873-224-193
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17	253	73.3	2433	10	US-09-899-303-49
18	253	73.3	2433	10	US-09-995-808-49
19	253	73.3	2433	10	US-09-995-860-49
20	253	73.3	2433	10	US-09-995-791-49
21	253	73.3	2433	17	US-10-321-798-49
22	249.8	72.4	360	13	US-09-306-780-3
23	249.8	72.4	360	13	US-09-306-780-7
24	249.8	72.4	360	13	US-09-306-780-11
25	249.8	72.4	360	13	US-09-306-780-6
26	248.8	72.1	957	9	US-09-851-138-11
27	248.2	71.9	480	15	US-10-071-867-15
28	248.2	71.9	9275	15	US-10-259-275-39
29	246.6	71.5	685	10	US-09-853-409-37
30	246.6	71.5	685	13	US-10-457-304-37
31	246.6	71.5	685	13	US-10-454-293-37
32	246.6	71.5	708	16	US-10-365-620-57
33	246.6	71.5	750	16	US-10-365-620-53
34	246.6	71.5	1380	16	US-10-365-620-59
35	246.6	71.5	1422	16	US-10-365-620-55
36	246.6	71.5	9365	10	US-09-827-688-7
37	246.6	71.5	9416	9	US-09-929-955-13
38	246.6	71.5	9416	14	US-10-104-966-13
39	246.6	71.5	9416	17	US-10-719-619-13
40	246.6	71.5	9599	13	US-10-189-359-13
41	246.6	71.5	9605	13	US-10-467-000-2
42	246.6	71.5	9646	9	US-09-742-659-3
43	246.6	71.5	9646	9	US-09-238-075-1
44	246.6	71.5	9646	10	US-09-995-957-1
45	246.6	71.5	9646	10	US-09-917-563-1

#### ALIGNMENTS

#### RESULT 1

```

US-09-873-224-147
; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industrielapark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 345 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

```

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; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..345
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147

Query Match 100.0%; Score 345; DB 13; Length 345;
Best Local Similarity 100.0%; Pred. No. 1e-96;
Matches 345; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACATTCCTAAACACACAAAGAAAAACAAAGAAACACCAACCCCGGCCACACAGG 60
Db 1 ATGAGCACACATTCCTAAACACAAAGAAAAACAAAGAAACACCAACCCCGGCCACACAGG 60

QY 61 AGCTTAAAGTTCCTCCAGGCGGGGTCCAGATCGTTGGTGGAGTTTACGTGCTTACCGCAGGG 120
Db 61 AGCTTAAAGTTCCTCCAGGCGGGGTCCAGATCGTTGGTGGAGTTTACGTGCTTACCGCAGGG 120

QY 121 GCCCCCAAGTTGGGTGTGGGTGCAGTGGCGCAAGACTTCCGAGCGGTCGCAACCTCGCAGTA 180
Db 121 GCCCCCAAGTTGGGTGTGGGTGCAGTGGCGCAAGACTTCCGAGCGGTCGCAACCTCGCAGTA 180

QY 181 GSGGCGCAACCCATCCCCAGGCGGCGCGCAACCCAGAGGCAGGTCTCTGGGCTCAGCCCCGGGT 240
Db 181 GSGGCGCAACCCATCCCCAGGCGGCGCGCAACCCAGAGGCAGGTCTCTGGGCTCAGCCCCGGGT 240

QY 241 ACCCTTGGCCCTCTATATGGGAATCAGGCGCTCGCGGTGGGCAGGGTGGCTTCCTGTCCCCGC 300
Db 241 ACCCTTGGCCCTCTATATGGGAATCAGGCGCTCGCGGTGGGCAGGGTGGCTTCCTGTCCCCGC 300

QY 301 GCGGCTCTCGCCCGCTGTGTGGGCGCCAAATGACCCCGGCGCAGGA 345
Db 301 GCGGCTCTCGCCCGCTGTGTGGGCGCCAAATGACCCCGGCGCAGGA 345

```

```

RESULT 2
US-09-899-046-147
/ Sequence 147 Application US/09899046
/ Publication No. US2003008274A1
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: New sequences of hepatitis C virus
/ TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

```

```

1  APPLICANT:
2  TITLE OF INVENTION:  New sequences of hepatitis C virus
3  TITLE OF INVENTION:  genotypes for diagnosis, prophylaxis and therapy.
4  NUMBER OF SEQUENCES:  270
5  COMPUTER READABLE FORM:
6  MEDIUM TYPE:  Floppy disk
7  COMPUTER:  IBM PC compatible
8  OPERATING SYSTEM:  PC-DOS/MS-DOS
9  SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
10 CURRENT APPLICATION DATA:
11 APPLICATION NUMBER:  US/09/899,046

```

```

, PRIOR APPLICATION NUMBER: 08/362,455
,
, FILING DATE:
,
, INFORMATION FOR SEQ ID NO: 147:
, SEQUENCE CHARACTERISTICS:
, LENGTH: 346 base pairs
, TYPE: nucleic acid
, STRANDEDNESS: single
, TOPOLOGY: linear
, MOLECULE TYPE: cDNA
, HYPOTHETICAL: NO
, ANTI-SENSE: NO
, FEATURE:
, NAME/KEY: CDS
, LOCATION: 1..346

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; NAME/KEY: mat_peptide
; LOCATION: 1..342
US-09-899-046-147

Query Match          96.8%; Score 334; DB 10; Length 346;
Best Local Similarity 99.7%; Pred. No. 2.6e-93;
Matches 345; Conservative 0; Mismatches 0; Indels 1; Gaps 1

QY      1  ATGAGCACATTCCTAAACACACAAAGAAAAACCAAAAGAAACACCAAAAC-CCGGGCCACAG 59
Db      1  ATGAGCACATTCCTAAACACACAAAGAAAAACCAAAAGAAACACCAAAACCCSCGGGCCACAG 60

QY      60  GACGTTAAGTTTCCACAGCGCGGTGCAGATCGTTGTGGAGTTTACGTGTACACGCGAGG 119
Db      61  GACGTTAAGTTTCCACAGCGCGGTGCAGATCGTTGTGGAGTTTACGTGTACACGCGAGG 120

QY      120  GGCCCCCAGTTGGGTGTGCGTGCAGATGCGCAAGACACTTCCGAGCGGTGCGAACTCGCAGT 179
Db      121  GGCCCCCAGTTGGGTGTGCGTGTGCGTGCAGACACTTCCGAGCGGTGCGAACTCGCAGT 180

QY      180  AGGCGCCAAACCCATCCCCAGGGCGCGCCGAACCCGAGGCGAGTCTCTGGGCTCAGCCCCGG 239
Db      181  AGGCGCCAAACCCATCCCCAGGGCGCGCCGAACCCGAGGCGAGTCTCTGGGCTCAGCCCCGG 240

QY      240  TACCTTGGCCCCCTATATGGGATGAGGGCTGCGGGTGGGCGAGGTGGCTCTCTGTCCCCG 299
Db      241  TACCTTGGCCCCCTATATGGGATGAGGGCTGCGGGTGGGCGAGGTGGCTCTCTGTCCCCG 300

QY      300  CGCGGCTCTCGCCGCTCGTGGGCCCCAAATGACCCCCGGCGCAGGA 345
Db      301  CGCGGCTCTCGCCGCTCGTGGGCCCCAAATGACCCCCGGCGCAGGA 346

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RESULT 3
US-09-878-281-147
; Sequences 147 Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: sequences for diagnosis, prophylaxis and therapy.

```

```

1 TITLE OF INVENTION: New sequences of hepatitis C virus
2
3 TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
4
5 NUMBER OF SEQUENCES: 270
6
7 COMPUTER READABLE FORM:
8
9 MEDIUM TYPE: floppy disk
10
11 COMPUTER: IBM PC Compatible
12
13 OPERATING SYSTEM: PC-DOS/MS-DOS
14
15 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
16
17 CURRENT APPLICATION DATA:
18
19 APPLICATION NUMBER: US/09/878,281
20
21 FILING DATE:
22
23 PRIORITY APPLICATION DATA:
24
25 APPLICATION NUMBER: 08/362,455
26
27 FILING DATE:
28
29 INFORMATION FOR SEQ ID NO: 147:
30
31 SEQUENCE CHARACTERISTICS:
32
33 LENGTH: 346 base pairs
34
35 TYPE: nucleic acid
36
37 STRANDEDNESS: single
38
39 TOPOLOGY: linear
40
41 MOLECULE TYPE: cDNA
42
43 HYPOTHETICAL: NO
44
45 ANTI-SENSE: NO
46
47 FEATURE:
48
49 NAME/KEY: CDS
50
51 LOCATION: 1..346
52
53 FEATURE:
54
55 NAME/KEY: mat_peptide
56
57 LOCATION: 1..342
58
59 PS-09-878-281-147

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Query Match 96.8%; Score 334; DB 10; Length 346;  
Best Local Similarity 99.7%; Pred. No. 2.6e-93;

Matches 345; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
QY 1 ATGAGCACACTTCTCTAAACACAAAGAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 59  
Db 1 ATGAGCACACTTCTCTAAACACAAAGAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 60  
QY 60 GACGTTAAGTTCCAGAGGGCGGTGAGATGTTGGTGGAGTTTACGTGCTACACGAGG 119  
Db 61 GACGTTAAGTTCCAGAGGGCGGTGAGATGTTGGTGGAGTTTACGTGCTACACGAGG 120  
QY 120 GGGCCCAAGTTGGGTGTCGTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACTCGCAGT 179  
Db 121 GGGCCCAAGTTGGGTGTCGTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACTCGCAGT 180  
QY 180 AGGCGCAACCCATCCCAAGGGCGCGCGCAACCCGAGGCGAGGTCTGGGTGTCAGCCCGGG 239  
Db 181 AGGCGCAACCCATCCCAAGGGCGCGCGCAACCCGAGGCGAGGTCTGGGTGTCAGCCCGGG 240  
QY 240 TACCCCTTGGCCCTATATGGGAATGAGGGTGCAGGCTGCGGGTGGGCGAGGTGGCTCTGCCCG 299  
Db 241 TACCCCTTGGCCCTATATGGGAATGAGGGTGCAGGCTGCGGGTGGGCGAGGTGGCTCTGCCCG 300  
QY 300 CGCGGCTCTCGCCCGTCTGGGGCGCCAAATGACCCCGGGCGAGGA 345  
Db 301 CGCGGCTCTCGCCCGTCTGGGGCGCCAAATGACCCCGGGCGAGGA 346  
RESULT 4  
US-09-851-138-49  
; Sequence 49, Application US/09851138  
; Publication No. US20020183508A1  
; GENERAL INFORMATION:  
; APPLICANT: MAERTENS, GEERT  
; STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
; AGENTS  
; NUMBER OF SEQUENCES: 207  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARNOLD, WHITE & DURKEE  
; STREET: P.O. BOX 4433  
; CITY: HOUSTON  
; STATE: TEXAS  
; COUNTRY: USA  
; ZIP: 77210-4433  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Microsoft Word 6.0 / ASCII text output  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/851,138  
; FILING DATE: 09-May-2001  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/836,075  
; FILING DATE: <Unknown>  
; APPLICATION NUMBER: EP 94870166.9  
; FILING DATE: 21 Oct 1994  
; APPLICATION NUMBER: EP 95870076.7  
; FILING DATE: 28 Jun 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KAMMERER, PATRICIA A.  
; REGISTRATION NUMBER: 29,775  
; REFERENCE/DOCKET NUMBER: INNS:004  
; INFORMATION FOR SEQ ID NO: 49:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 309 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cdna  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO

SEQUENCE DESCRIPTION: SEQ ID NO: 49:  
US-09-851-138-49  
Query Match 89.6%; Score 309; DB 9; Length 309;  
Best Local Similarity 100.0%; Pred. No. 1.4e-85;  
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ATGAGCACACTTCTCTAAACACAAAGAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 60  
Db 1 ATGAGCACACTTCTCTAAACACAAAGAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 60  
QY 61 AGTTAAGTTCCAGAGGGCGGTGAGATGTTGGTGGAGTTTACGTGCTACACGAGG 120  
Db 61 AGTTAAGTTCCAGAGGGCGGTGAGATGTTGGTGGAGTTTACGTGCTACACGAGG 120  
QY 121 GGGCCCAAGTTGGGTGTCGTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACTCGCAGTA 180  
Db 121 GGGCCCAAGTTGGGTGTCGTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACTCGCAGTA 180  
QY 181 GGGCGCAACCCATCCCAAGGGCGCGCGCAACCCGAGGCGAGGTCTGGGTGTCAGCCCGGGT 240  
Db 181 GGGCGCAACCCATCCCAAGGGCGCGCGCAACCCGAGGCGAGGTCTGGGTGTCAGCCCGGGT 240  
QY 241 ACCTTGGCCCTATATGGGAATGAGGGTGCAGGCTGCGGGTGGGCGAGGTGGCTCTGCCCG 300  
Db 241 ACCTTGGCCCTATATGGGAATGAGGGTGCAGGCTGCGGGTGGGCGAGGTGGCTCTGCCCG 300  
QY 301 GCGGCTCTC 309  
Db 301 GCGGCTCTC 309  
RESULT 5  
US-09-851-138-59  
; Sequence 59, Application US/09851138  
; Publication No. US20020183508A1  
; GENERAL INFORMATION:  
; APPLICANT: MAERTENS, GEERT  
; STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
; AGENTS  
; NUMBER OF SEQUENCES: 207  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARNOLD, WHITE & DURKEE  
; STREET: P.O. BOX 4433  
; CITY: HOUSTON  
; STATE: TEXAS  
; COUNTRY: USA  
; ZIP: 77210-4433  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Microsoft Word 6.0 / ASCII text output  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/851,138  
; FILING DATE: 09-May-2001  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/836,075  
; FILING DATE: <Unknown>  
; APPLICATION NUMBER: EP 94870166.9  
; FILING DATE: 21 Oct 1994  
; APPLICATION NUMBER: EP 95870076.7  
; FILING DATE: 28 Jun 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KAMMERER, PATRICIA A.  
; REGISTRATION NUMBER: 29,775  
; REFERENCE/DOCKET NUMBER: INNS:004  
; INFORMATION FOR SEQ ID NO: 59:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 652 base pairs  
; TYPE: nucleic acid



Db 181 AGCGCCAACTATCCCAAGGCGCGCAACCGAGGCGAGATCTTGGGCGAGCCCGG 240  
Qy 240 TACCTTGGCCCTATATGGGAATAGGCTGCGGTGGGAGGCTCTCTGTCCCG 299  
Db 241 TATCTTGGCCCTTTACGCAATAGGCTGTGGTGGGAGGCTCTCTGTCCCT 300  
Qy 300 CGCGGCTCTCGCCCTCGTGGGGCCCAATAGACCCCGGCGAG 343  
Db 301 CGCGNTCTCGGCGTCTTGGGCCCCCAATGATCCCCGNGGAG 344

## RESULT 8

US-09-873-224-165  
; Sequence 165, Application US/09873224  
; Publication No. US20030064360A1  
; GENERAL INFORMATION:  
; APPLICANT: <Unknown>  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; CORRESPONDENCE ADDRESS:  
; STREET: Industriepark Zwijnaarde 7, box 4  
; CITY: Ghent  
; COUNTRY: Belgium  
; ZIP: B-9052  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/873,224  
; FILING DATE: 05-Jun-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Innogenetics sa.  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 00 32 9 241 07 11  
; TELEFAX: 00 32 9 241 07 99  
; INFORMATION FOR SEQ ID NO: 165:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 499 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; SEQUENCE DESCRIPTION: SEQ ID NO: 165:  
US-09-873-224-165

Query Match 75.4%; Score 260.2; DB 13; Length 499;  
Best Local Similarity 86.3%; Pred. No. 1.8e-70;  
Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;  
Qy 1 ATGAGCACATCTTCTAAACACCAAGAAAAACCAAAAGAACCAACCCCGCCACA-G 59  
Db 1 ATGAGCAGCAATCTAAACCTCAAGAAAAACCAACGTAACCAACCGCGCCCTATG 60  
Qy 60 GAGCTTAAGTTCCAGGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACCACGAGG 119  
Db 61 GAGCTTAAGTTCCAGGCGGTTCAGATCGTTGGGAGTTTACTTGTTCGCGCGAGG 120  
Qy 120 GGCCCCCAGTTGGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCACTCGCAGT 179  
Db 121 GGCCCCCAGTTGGGTGTGCGCGGACTAGGAAGACTTCCGAGCGGTCCGCACTCGTGA 180  
Qy 180 AGGCGCCCAACCATCCCGAGGCGCGCGAACCAGGCGAGTCTCTGGGCTCAGCCCGG 239  
Db 181 AGGCGACAGCTATCCCAAGCTCGCCGCGCGGAGGAGCTCTTGGGCTCAGCCCGG 240  
Qy 240 TACCTTGGCCCTATATGGGAATAGGCTTCGCGGTGGGAGGCTCTGTGTCCCG 299  
Db 241 TACCTTGGCCCTCTATGGCAATGAGGCTTCGGGTGGGAGGATGCTCTGTCCCT 300  
Qy 300 CGCGTAAAGTTCCAGGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACCACGAGG 119  
Db 61 GAGCTTAAGTTCCAGGCGGTTCAGATCGTTGGGAGTTTACTTGTTCGCGCGAGG 120  
Qy 120 GGCCCCCAGTTGGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCACTCGCAGT 179  
Db 121 GGCCCCCAGTTGGGTGTGCGCGGACTTCGAGACTTCGAGCGGTTCGCACTCGTGGG 180  
Qy 180 AGGCGCCCAACCATCCCGAGGCGCGCGAACCAGGCGAGTCTTGGGCTCAGCCCGG 239  
Db 181 AGGCGCCCAACCTATCCCAAGGCGCGCGAACCAGGCGAGATCTTGGGCGAGCCCGG 240

Qy 240 TACCTTGGCCCTATATGGGAATAGGCTTCGCGGTGGGAGGCTCTGTGTCCCG 299  
Db 241 TATCTTGGCCCTTTACGCAATAGGCTGTGGTGGGAGGCTCTCTGTCCCT 300  
Qy 300 CGCGGCTCTCGCCCTCGTGGGGCCCAATAGACCCCGGCGAG 343  
Db 301 CGCGNTCTCGGCGTCTTGGGCCCCCAATGATCCCCGNGGAG 344

## RESULT 9

US-09-194-949-5  
; Sequence 5, Application US/09194949  
; Publication No. US20030053987A1  
; GENERAL INFORMATION:  
; APPLICANT: Merck & Co., Inc.  
; APPLICANT: Donnelly, John J.  
; APPLICANT: Fu, Tong-Ming  
; APPLICANT: Liu, Margaret A.  
; APPLICANT: Shiver, John W.  
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES  
; FILE REFERENCE: 19732VP  
; CURRENT APPLICATION NUMBER: US/09/194,949  
; CURRENT FILING DATE: 2000-02-17  
; PRIOR APPLICATION NUMBER: PCT/US97/09884  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/020,494  
; PRIOR FILING DATE: 1996-06-11  
; PRIOR APPLICATION NUMBER: 60/033,534  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 573  
; TYPE: DNA  
; ORGANISM: Hepatitis C Virus  
US-09-194-949-5

Query Match 75.2%; Score 259.4; DB 10; Length 573;  
Best Local Similarity 86.4%; Pred. No. 3.3e-70;  
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;  
Qy 1 ATGAGCACACTTCTAAACCAAGAAAAACCAAAAGAACCAACCCCGCCAG 59  
Db 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAACGTAACCAACCGCGCCAG 60  
Qy 60 GACGTTAAGTTCCAGGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAAGCAGG 119  
Db 61 GACGTTAAGTTCCCGGCGGTTCAGATCGTTGGTGGAGTTTACTTGTTCGCGCGAGG 120  
Qy 120 GGCCCCCAGTTGGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCACTCGCAGT 179  
Db 121 GGCCCCCAGTTGGGTGTGCGCGGACTAGGAAGACTTCCGAGCGGTCCGCACTCGTGA 180  
Qy 180 AGGCGCCCAACCATCCCGAGGCGCGCGAACCAGGCGAGTCTCTGGGCTCAGCCCGG 239  
Db 181 AGGCGACAGCTATCCCAAGCTCGCCGCGCGGAGGAGCTCTTGGGCTCAGCCCGG 240  
Qy 240 TACCTTGGCCCTATATGGGAATAGGCTTCGCGGTGGGAGGCTCTGTGTCCCG 299  
Db 241 TACCTTGGCCCTCTATGGCAATGAGGCTTCGGGTGGGAGGATGCTCTGTCCCT 300  
Qy 300 CGCGGCTCTCGCCGCTCGTGGGCCCCCAATGATCCCCGNGGAG 344  
Db 301 CGCGGCTCTCGGCTCTTGGGCGCCCCCACTGACCCCCCGCGTAGG 345

## RESULT 10

US-09-899-046-163  
; Sequence 163, Application US/09899046  
; Publication No. US20030008274A1  
; GENERAL INFORMATION:  
; APPLICANT:

;; TITLE OF INVENTION: New sequences of hepatitis C virus  
;; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
;; NUMBER OF SEQUENCES: 270  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
;; CURRENT APPLICATION NUMBER: US/09/899,046  
;; FILING DATE:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/362,455  
;; FILING DATE:  
;; INFORMATION FOR SEQ ID NO: 163:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 499 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: cDNA  
;; HYPOTHETICAL: NO  
;; ANTI-SENSE: NO  
;; FEATURE:  
;; NAME/KEY: CDS  
;; LOCATION: 1..499  
;; FEATURE:  
;; NAME/KEY: mat\_peptide  
;; LOCATION: 1..496  
;; US-09-899-046-163

Query Match 73.8%; Score 254.6; DB 10; Length 499;  
Best Local Similarity 85.5%; Pred. No. 9.9e-69;  
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;  
QY 1 ATGAGCACACTTCCTAAACACCAAGAAAGAAACCAAGAAACCAACACCCCGGCACAC-G 59  
Db 1 ATGAGCACGAATCTTAACCTTCAAGAAAGAAACCAAGAAACCAACACCCCGGCACATG 60  
QY 60 GAGCTTAAAGTTCCAGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 119  
Db 61 GAGCTTAAAGTTCCAGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 120  
QY 120 GGGCCCCAGTTGGGTGTCGTCAGTCCGACAGCTTCGAGCGGTGCGCAACTCGCAGT 179  
Db 121 GGGCCCCAGTTGGGTGTCGTCAGTCCGACAGCTTCGAGCGGTGCGCAACTCGCAGG 180  
QY 180 AGCGCCACACCTATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 239  
Db 181 AGCGCCACACCTATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 240  
QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTGCGGTGCGCAGGTTGCTCTGTCCTCG 299  
Db 241 TATCTTGGCCCCCTTACGCAATGAGGCTGTTGGAGTTTACGTCTACCGCAGG 300  
QY 300 CGCGGCTCTCGCGCGCTTGGGCGCCCAATATGACCCCGCGCAGG 344  
Db 301 CGCGGCTCTCGCGCGCTTGGGCGCCCAATATGATCCCGCGCAGG 345

US-09-878-281-163  
;; Sequence 163, Application US/09878281  
;; Publication No. US20030032005A1  
;; GENERAL INFORMATION:  
;; APPLICANT:  
;; TITLE OF INVENTION: New sequences of hepatitis C virus  
;; genotypes for diagnosis, prophylaxis and therapy.  
;; NUMBER OF SEQUENCES: 270  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
;; CURRENT APPLICATION DATA:

;; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/09/878,281  
;; FILING DATE:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/362,455  
;; FILING DATE:  
;; INFORMATION FOR SEQ ID NO: 163:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 499 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: cDNA  
;; HYPOTHETICAL: NO  
;; ANTI-SENSE: NO  
;; FEATURE:  
;; NAME/KEY: CDS  
;; LOCATION: 1..499  
;; FEATURE:  
;; NAME/KEY: mat\_peptide  
;; LOCATION: 1..496  
;; US-09-878-281-163

Query Match 73.8%; Score 254.6; DB 10; Length 499;  
Best Local Similarity 85.5%; Pred. No. 9.9e-69;  
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;  
QY 1 ATGAGCACACTTCCTAAACACCAAGAAAGAAACCAAGAAACCAACACCCCGGCACAC-G 59  
Db 1 ATGAGCACGAATCTTAACCTTCAAGAAAGAAACCAAGAAACCAACACCCCGGCACATG 60  
QY 60 GAGCTTAAAGTTCCAGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 119  
Db 61 GAGCTTAAAGTTCCAGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 120  
QY 120 GGGCCCCAGTTGGGTGTCGTCAGTCCGACAGCTTCGAGCGGTGCGCAACTCGCAGT 179  
Db 121 GGGCCCCAGTTGGGTGTCGTCAGTCCGACAGCTTCGAGCGGTGCGCAACTCGTGGG 180  
QY 180 AGCGCCACACCTATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 239  
Db 181 AGCGCCACACCTATCCCGCGCGGTGAGTCTGTTGGAGTTTACGTCTACCGCAGG 240  
QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTGCGGTGCGCAGGTTGCTCTGTCCTCG 299  
Db 241 TATCTTGGCCCCCTTACGCAATGAGGCTGTTGGAGTTTACGTCTACCGCAGG 300  
QY 300 CGCGGCTCTCGCGCGCTTGGGCGCCCAATATGACCCCGCGCAGG 344  
Db 301 CGCGGCTCTCGCGCGCTTGGGCGCCCAATATGATCCCGCGCAGG 345

RESULT 12  
US-09-873-224-163  
;; Sequence 163, Application US/09873224  
;; Publication No. US20030064360A1  
;; GENERAL INFORMATION:  
;; APPLICANT: <Unknown>  
;; TITLE OF INVENTION: New sequences of hepatitis C virus  
;; genotypes for diagnosis, prophylaxis and therapy.  
;; NUMBER OF SEQUENCES: 270  
;; CORRESPONDENCE ADDRESS:  
;; STREET: Industriepark Zwijnaarde 7, box 4  
;; CITY: Ghent  
;; COUNTRY: Belgium  
;; ZIP: B-9052  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
;; CURRENT APPLICATION DATA:



Query Match 73.5%; Score 253.6; DB 10; Length 498;  
Best Local Similarity 85.5%; Pred. No. 2e-68;  
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;  
1 ATGACACACTCTCTTAACCCACAAGAAACCAACCAACCAACCCCGGCCACA-G 59

Query Match	73.5%;	Score	253.6;	DB	10;	Length	498;
Best Local Similarity	85.5%;	Pred. No.	2e-68;				
Matches	294;	Conservative	0;	Mismatches	49;	Indels	1;
QY	1	ATGAGCACACTTCCTCTAAACACACAGAGAAACCAAAGAACACACACACCGGCCCA-G	59				
Db	1	ATGAGCAGNATCCTTAACCTCAAGAGAAACCAAAGCTAACACCAACCGCCGCCCTATG	60				
QY	60	GAGCTTAAAGTTCCAGCGCGCGTCAAGTCGTTGGTGAGTTTACGTGTACCAACGCAGG	119				
Db	61	GACGTAAGTTCCCGGCGGTGACAGNATCGTTGGCGGAGTTTACTTGTTCGCGGAGG	120				
QY	120	GGCCCCAGTTGGGTTGTGCGTGCAGTGCAGCGCAAGCTTCGAGCGGTGCGAACCTCGCAGT	179				
Db	121	GGCCCCCGTTGGGTTGTGCGCGCACTCGAAGACTTCGAGGCGGTGCGAACCTCGTGGC	180				
QY	180	AGSGCGCAACCCATCCCAAGGCGCGCGGAAACCGAGGCGAGGTCCTGGGCTCAGCCCGG	239				
Db	181	AGSGGTCAACCTATATCCCAAGGGCGCGCGGTCCGAGGGCAGGTCTTGGGCGAAGCCGGG	240				
QY	240	TACCCCTGGCCCCCTATATGGGAATGAGGGGTGCGGGTGGCGAGGGTGGCTTCCTGTCCCCG	299				
Db	241	TACCCCTGGCCCCCTATATGGCAATGAGGCTGTGGGTGGCAGGGTGGCTTCCTGTCTCCT	300				
QY	300	CGCGGCTCTGCCCCGTGCTGGGGCCCAATGACCCCGCGCGAG	343				
Db	301	CGCGGCTCTCGSCATCTTGGGGCCCAATGATCCCGCGCGAG	344				

RESULT 14  
US-09-878-281-193  
; Sequence 193, Application US/09878281  
; Publication No. US20030032005A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/878,281  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE:  
; INFORMATION FOR SEQ ID NO: 193:  
; SEQUENCE CHARACTERISTICS:

TELEPHONE: 00 32 9 241 07 11  
TELEFAX: 00 32 9 241 07 99  
INFORMATION FOR SEQ ID NO: 193:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 498 base pairs  
TYPE: nucleic acid  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..498  
FEATURE:  
NAME/KEY: mat\_peptide  
LOCATION: 1..495  
SEQUENCE DESCRIPTION: SEQ ID NO: 193:  
US-09-873-224-193

Query Match 73.5%; Score 253.6; DB 13; Length 498;  
Best Local Similarity 85.5%; Pred. No. 2e-68;  
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACACCAAGAAACCAAAAGAAACCAACCAACCCCGGCCACA-G 59  
DB 1 ATGAGCACGAATCCTAAACCTCAAGAAACCAACCAACCAACCCCGGCCCTATG 60  
QY 60 GAGCTTAAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGTACACCGCAGG 119  
DB 61 GACGTAAAGTTCCGCGCGGTGGACAGATCGTTGGCGGAGTTTACTTTGTTCGCGCGCAGG 120  
QY 120 GGGCCCCAGTTGGGTGTGGTGCAGTGGCAGACCTTCGAGCGGTCCGCAACCTCGCAGT 179  
DB 121 GGGCCCCAGTTGGGTGTGGTGCAGTGGCAGACCTTCGAGCGGTCCGCAACCTCGTGC 180  
QY 180 AGGCGCCAAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 239  
DB 181 AGGCGTCAACCTATCCCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 240  
QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTGGGCTGGGCGAGGTTGGTCTCTGTCGCGG 299  
DB 241 TACCTTGGCCCCCTCTATGGCAATGAGGCTGGGCTGGGCGAGGTTGGTCTCTCTCT 300  
QY 300 CGCGGCTCTCGCGCGTCTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 343  
DB 301 CGCGGCTCTCGCGCACTTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGAG 344

Search completed: August 17, 2004, 13:18:44  
Job time : 357 secs

LENGTH: 498 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..498  
FEATURE:  
NAME/KEY: mat\_peptide  
LOCATION: 1..495  
US-09-878-281-193

Query Match 73.5%; Score 253.6; DB 10; Length 498;  
Best Local Similarity 85.5%; Pred. No. 2e-68;  
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACACCAAGAAACCAAAAGAAACCAACCAACCCCGGCCACA-G 59  
DB 1 ATGAGCACGAATCCTAAACCTCAAGAAACCAACCAACCAACCCCGGCCCTATG 60  
QY 60 GAGCTTAAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGTACACCGCAGG 119  
DB 61 GACGTAAAGTTCCGCGCGGTGGACAGATCGTTGGCGGAGTTTACTTTGTTCGCGCGCAGG 120  
QY 120 GGGCCCCAGTTGGGTGTGGTGCAGTGGCAGACCTTCGAGCGGTCCGCAACCTCGCAGT 179  
DB 121 GGGCCCCAGTTGGGTGTGGTGCAGTGGCAGACCTTCGAGCGGTCCGCAACCTCGTGC 180  
QY 180 AGGCGCCAAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 239  
DB 181 AGGCGTCAACCTATCCCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 240  
QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTGGGCTGGGCGAGGTTGGTCTCTGTCGCGG 299  
DB 241 TACCTTGGCCCCCTCTATGGCAATGAGGCTGGGCTGGGCGAGGTTGGTCTCTCTCTCT 300  
QY 300 CGCGGCTCTCGCGCGTCTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 343  
DB 301 CGCGGCTCTCGCGCACTTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGAG 344

RESULT 15  
US-09-873-224-193  
Sequence 193, Application US/09873224  
Publication No. US20030064360A1  
GENERAL INFORMATION:  
APPLICANT: <Unknown>  
TITLE OF INVENTION: New sequences of hepatitis C virus  
genotypes for diagnosis, prophylaxis and therapy.  
NUMBER OF SEQUENCES: 270  
CORRESPONDENCE ADDRESS:  
STREET: Industriepark Zwijnaarde 7, box 4  
CITY: Ghent  
COUNTRY: Belgium  
ZIP: B-9052  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/873,224  
FILING DATE: 05-Jun-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Innogenetics sa.  
TELECOMMUNICATION INFORMATION:

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 17, 2004, 12:08:31 ; Search time 82 Seconds  
(without alignments)  
2334.854 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacattctctaacc.....aaatgaccccgccgagga 345

Scoring table: OLIGO NUC

Gapop 60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA:\*

- 1: /cgn2\_6/ptodata/2/ina/5A COMB.seq.\*
- 2: /cgn2\_6/ptodata/2/ina/5B COMB.seq.\*
- 3: /cgn2\_6/ptodata/2/ina/6A COMB.seq.\*
- 4: /cgn2\_6/ptodata/2/ina/6B COMB.seq.\*
- 5: /cgn2\_6/ptodata/2/ina/PCTUS COMB.seq.\*
- 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	309	89.6	309	3	US-08-836-075A-49
2	43	12.5	549	3	US-08-441-971-60
3	43	12.5	549	3	US-08-221-653-60
4	43	12.5	549	3	US-08-442-144A-60
5	43	12.5	549	3	US-08-441-970-60
6	43	12.5	573	2	US-08-290-665A-141
7	43	12.5	573	4	US-09-194-949A-5
8	43	12.5	573	5	PCT-US95-10398-141
9	43	12.5	831	3	US-08-836-075A-65
10	40	11.6	573	2	US-08-290-665A-142
11	40	11.6	573	5	PCT-US95-10398-142
12	38	11.0	573	2	US-08-290-665A-136
13	38	11.0	573	5	PCT-US95-10398-136
14	35	10.1	573	2	US-08-290-665A-137
15	35	10.1	573	2	US-08-290-665A-138
16	35	10.1	573	5	PCT-US95-10398-139
17	35	10.1	573	5	PCT-US95-10398-137
18	35	10.1	573	5	PCT-US95-10398-138
19	35	10.1	573	5	PCT-US95-10398-139
20	35	10.1	803	1	US-08-157-235-1
21	35	10.1	803	1	US-08-157-235-2
22	35	10.1	803	1	US-08-157-235-3
23	35	10.1	803	1	US-08-157-235-4
24	34	9.9	573	2	US-08-290-665A-135
25	34	9.9	573	5	PCT-US95-10398-135
26	34	9.9	803	1	US-08-157-235-5
27	31	9.0	183	1	US-07-681-703B-21

28 31 9.0 183 2 US-08-407-410B-21 Sequence 21, Appl  
29 31 9.0 183 2 US-08-485-500-21 Sequence 21, Appl  
30 31 9.0 183 5 PCT-US91-02370-21 Sequence 21, Appl  
31 31 9.0 270 1 US-07-681-703B-23 Sequence 23, Appl  
32 31 9.0 270 2 US-08-407-410B-23 Sequence 23, Appl  
33 31 9.0 270 2 US-08-485-500-23 Sequence 23, Appl  
34 31 9.0 270 5 PCT-US91-02370-23 Sequence 23, Appl  
35 31 9.0 273 1 US-07-681-703B-19 Sequence 19, Appl  
36 31 9.0 273 2 US-08-407-410B-19 Sequence 19, Appl  
37 31 9.0 273 2 US-08-485-500-19 Sequence 19, Appl  
38 31 9.0 273 5 PCT-US91-02370-19 Sequence 19, Appl  
39 31 9.0 306 2 US-08-537-811-35 Sequence 35, Appl  
40 31 9.0 327 3 US-08-836-075A-1 Sequence 1, Appl  
41 31 9.0 355 3 US-08-444-818-104 Sequence 104, Appl  
42 31 9.0 355 3 US-08-444-818-106 Sequence 106, Appl  
43 31 9.0 360 1 US-07-681-703B-17 Sequence 17, Appl  
44 31 9.0 360 2 US-08-407-410B-17 Sequence 17, Appl  
45 31 9.0 360 2 US-08-485-500-17 Sequence 17, Appl

#### ALIGNMENTS

##### RESULT 1

US-08-836-075A-49 ; Sequence 45, Application US/08836075A

; Patent No. 6180768  
; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GERT

; APPLICANT: STUYVEN, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESS: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

; NAME: KAMMERER, PATRICIA A.

; REGISTRATION NUMBER: 29,775

; REFERENCE/DOCKET NUMBER: INNS:004

; INFORMATION FOR SEQ ID NO: 49:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 309 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

US-08-836-075A-49



RESULT 4  
US-08-442-144A-60  
; Sequence 60, Application US/08442144A  
; Patent No. 6214583  
; GENERAL INFORMATION:  
; APPLICANT: Tai-An Cha  
; APPLICANT: Eileen Beall  
; APPLICANT: Bruce Irvine  
; APPLICANT: Janice Kolberg  
; APPLICANT: Michael S. Urdea  
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR  
; DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 148  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94608-2916

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 Inch  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows NT  
SOFTWARE: Microsoft Word 97  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/442,144A  
FILING DATE: MAY 16, 1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/221,653  
FILING DATE: APRIL 1, 1994

ATTORNEY/AGENT INFORMATION:  
NAME: Doreen Yacko Trujillo  
REGISTRATION NUMBER: 35,719  
REFERENCE/DOCKET NUMBER: CHIR-0121  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 215-568-3100  
TELEFAX: 215-568-3439  
TELEX:

INFORMATION FOR SEQ ID NO: 60:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 549 Nucleotides  
TYPE: Nucleic Acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
MOLECULE TYPE: DNA  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: nac5  
US-08-442-144A-60

Query Match 12.5%; Score 43; DB 3; Length 549;  
Best Local Similarity 100.0%; Pred. No. 2.1e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTGGGTACGCCGGGTACCCCTTGGCCCT 253  
Db 212 CCGAGGCGAGTCTGGGTACGCCGGGTACCCCTTGGCCCT 254

RESULT 5  
US-08-441-970-60  
; Sequence 60, Application US/08441970  
; Patent No. 6297370  
; GENERAL INFORMATION:  
; APPLICANT: Tai-An Cha  
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR  
; DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 147  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.  
; STREET: 600 Atlantic Avenue

COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A

US-08-290-665A-141  
; Sequence 141, Application US/08290665A  
; Patent No. 5882852  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; AND THE USE OF REAGENTS DERIVED FROM THESE  
; SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154

COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A

CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 5.25 inch  
COMPUTER: IBM compatible  
OPERATING SYSTEM: MS-DOS Version 3.3  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/441,970  
FILING DATE: 16-MAY-1995  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/881,528  
FILING DATE: 08-MAY-1992  
APPLICATION NUMBER: 07/697,326  
FILING DATE: 8 May 1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Janiuk, Anthony J.  
REGISTRATION NUMBER: 29,809  
REFERENCE/DOCKET NUMBER: C0772/7000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 720-3500  
TELEFAX: (617) 720-2441  
TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 60:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 549 nucleotides  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: nac5  
US-08-441-970-60

Query Match 12.5%; Score 43; DB 3; Length 549;  
Best Local Similarity 100.0%; Pred. No. 2.1e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTGGGTACGCCGGGTACCCCTTGGCCCT 253  
Db 212 CCGAGGCGAGTCTGGGTACGCCGGGTACCCCTTGGCCCT 254

RESULT 6  
US-08-290-665A-141  
; Sequence 141, Application US/08290665A  
; Patent No. 5882852  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; AND THE USE OF REAGENTS DERIVED FROM THESE  
; SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154

COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A

Query Match	Best Local Similarity	100.0%	Pred. No. 2.1e-12	Mismatches	0	Indels	0	Gaps	0
US-08-290-665A-141	US-08-290-665A-141	US-08-290-665A-141	US-08-290-665A-141	US-08-290-665A-141	US-08-290-665A-141	US-08-290-665A-141	US-08-290-665A-141	US-08-290-665A-141	US-08-290-665A-141
Query Match	12.5%	Score 43	DB 2	Length 573					
Best Local Similarity	100.0%	Pred. No. 2.1e-12							
Mismatches	43	Conservative	0	Mismatches	0	Indels	0	Gaps	0
QY	211	CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGCCCT	253						
DB	212	CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGCCCT	254						
RESULT 7	US-09-194-949A-5	US-09-194-949A-5	US-09-194-949A-5	US-09-194-949A-5	US-09-194-949A-5	US-09-194-949A-5	US-09-194-949A-5	US-09-194-949A-5	US-09-194-949A-5
Query Match	12.5%	Score 43	DB 4	Length 573					
Best Local Similarity	100.0%	Pred. No. 2.1e-12							
Mismatches	43	Conservative	0	Mismatches	0	Indels	0	Gaps	0
QY	211	CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGCCCT	253						
DB	212	CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGCCCT	254						
RESULT 8	PCT-US95-10398-141	PCT-US95-10398-141	PCT-US95-10398-141	PCT-US95-10398-141	PCT-US95-10398-141	PCT-US95-10398-141	PCT-US95-10398-141	PCT-US95-10398-141	PCT-US95-10398-141
Query Match	12.5%	Score 43	DB 4	Length 573					
Best Local Similarity	100.0%	Pred. No. 2.1e-12							
Mismatches	43	Conservative	0	Mismatches	0	Indels	0	Gaps	0
QY	211	CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGCCCT	253						
DB	212	CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGCCCT	254						
RESULT 9	US-08-836-075A-65	US-08-836-075A-65	US-08-836-075A-65	US-08-836-075A-65	US-08-836-075A-65	US-08-836-075A-65	US-08-836-075A-65	US-08-836-075A-65	US-08-836-075A-65
Query Match	12.5%	Score 43	DB 5	Length 573					
Best Local Similarity	100.0%	Pred. No. 2.1e-12							
Mismatches	43	Conservative	0	Mismatches	0	Indels	0	Gaps	0
QY	211	CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGCCCT	253						
DB	212	CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGCCCT	254						

STATE: TEXAS  
COUNTRY: USA  
ZIP: 77210-4433  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word 6.0 / ASCII text output  
CURRENT APPLICATION DATA: US/08/836,075A  
APPLICATION NUMBER: 36,459  
FILING DATE: 21 Apr 1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/EP95/04155  
FILING DATE: 23 Oct 1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EP 94870166.9  
FILING DATE: 21 Oct 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EP 95870076.7  
FILING DATE: 28 Jun 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: KAMMERER, PATRICIA A.  
REGISTRATION NUMBER: 29,775  
REFERENCE/DOCKET NUMBER: INNS:004  
INFORMATION FOR SEQ ID NO: 65:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 831 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-836-075A-65

Query Match 12.5%; Score 43; DB 3; Length 831;  
Best Local Similarity 100.0%; Pred. No. 2.1e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGCCCT 253  
Db 227 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGCCCT 269

RESULT 10  
US-08-290-665A-142  
Sequence 142, Application US/08290665A  
Patent No. 5882852  
GENERAL INFORMATION:  
APPLICANT: BUKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/10398  
FILING DATE: 15-AUG-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/086,428  
FILING DATE: 29 JUNE 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/290/665  
FILING DATE: 15 AUGUST 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 142:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs

ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 142:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORIGINAL SOURCE:  
ORGANISM: Homosapiens  
INDIVIDUAL ISOLATE: Z5  
US-08-290-665A-142

Query Match 11.6%; Score 40; DB 2; Length 573;  
Best Local Similarity 100.0%; Pred. No. 7e-11;  
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGCC 250  
Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGCC 251

RESULT 11  
PCT-US95-10398-142  
Sequence 142, Application PC/TUS9510398  
GENERAL INFORMATION:  
APPLICANT: BUKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/10398  
FILING DATE: 15-AUG-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/086,428  
FILING DATE: 29 JUNE 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/290/665  
FILING DATE: 15 AUGUST 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 142:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs

```

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z5
PCT-US95-10398-142

Query Match      11.6%; Score 40; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 7e-11;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CGAGGGCGAGTCTCGGGTGCAGCCGGGTACCTTGGCC 250
    |||||||
Db 212 CGAGGGCGAGTCTCGGGTGCAGCCGGGTACCTTGGCC 251
    |||||||

RESULT 12
US-08-290-665A-136
; Sequence 136, Application US/08290665A
; Patent No. 582852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match      11.0%; Score 38; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 7.2e-10;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 261 AATGAGGGTGGGGTGGGAGGGTGGCTCTGTCCTCC 298
    |||||||
Db 262 AATGAGGGTGGGGTGGGAGGGTGGCTCTGTCCTCC 299
    |||||||

RESULT 14
US-08-290-665A-137
; Sequence 137, Application US/08290665A
; Patent No. 582852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-136

Query Match      11.0%; Score 38; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 7.2e-10;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 261 AATGAGGGTGGGGTGGGAGGGTGGCTCTGTCCTCC 298
    |||||||
Db 262 AATGAGGGTGGGGTGGGAGGGTGGCTCTGTCCTCC 299
    |||||||

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TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 137:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: S2  
US-08-290-665A-137

Query Match 10.1%; Score 35; DB 2; Length 573;  
Best Local Similarity 100.0%; Pred. No. 2.4e-08;  
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 264 GAGGGCTGCGGGTGGCGAGGGTGCTCTGTGCCCC 298  
|||||  
Db 265 GAGGGCTGCGGGTGGCGAGGGTGCTCTGTGCCCC 299  
|||||

## RESULT 15

US-08-290-665A-138  
Sequence 138, Application US/08290665A  
Patent No. 5882852  
GENERAL INFORMATION:  
APPLICANT: BUKH, J., MILLER, R. H. AND  
APPLICANT: PURCELL, R. H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 138:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 573 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: DK12  
US-08-290-665A-138

Query Match 10.1%; Score 35; DB 2; Length 573;  
Best Local Similarity 100.0%; Pred. No. 2.4e-08;  
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 264 GAGGGCTGCGGGTGGCGAGGGTGCTCTGTGCCCC 298  
|||||  
Db 265 GAGGGCTGCGGGTGGCGAGGGTGCTCTGTGCCCC 299  
|||||

Search completed: August 17, 2004, 13:20:19  
Job time : 83 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 17, 2004, 13:12:42 ; Search time 356 Seconds  
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4754.999 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence:

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Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 3225727 seqs, 2453303834 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6451454

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA.\*

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- 10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09D\_PUBCOMB.seq.\*
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- 14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*
- 18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*
- 19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	345	100.0	345	13	US-09-873-224-147
2	309	89.6	309	9	Sequence 147, App
3	296	85.8	346	10	Sequence 49, Appl
4	296	85.8	346	10	Sequence 147, App
5	43	12.5	573	10	Sequence 147, App
6	43	12.5	831	9	Sequence 5, Appl
7	31	9.0	152	9	Sequence 65, Appl
8	31	9.0	234	9	Sequence 39, Appl
9	31	9.0	300	15	Sequence 41, Appl
10	31	9.0	310	9	Sequence 16, Appl
11	31	9.0	327	9	Sequence 114, App
12	31	9.0	339	9	Sequence 1, Appl
13	31	9.0	360	13	Sequence 115, App
14	31	9.0	450	13	Sequence 3, Appl
					Sequence 5, Appl

15	31	9.0	480	15	US-10-071-867-15	Sequence 15, Appl
16	31	9.0	483	13	US-09-306-780-7	Sequence 7, Appl
17	31	9.0	528	13	US-09-306-780-19	Sequence 19, Appl
18	31	9.0	540	16	US-10-150-283-2	Sequence 2, Appl
19	31	9.0	573	13	US-09-306-780-9	Sequence 9, Appl
20	31	9.0	708	16	US-10-365-620-57	Sequence 57, Appl
21	31	9.0	750	16	US-10-365-620-53	Sequence 53, Appl
22	31	9.0	843	13	US-09-306-780-11	Sequence 11, Appl
23	31	9.0	1380	16	US-10-365-620-59	Sequence 59, Appl
24	31	9.0	1422	16	US-10-365-620-55	Sequence 55, Appl
25	31	9.0	2025	13	US-10-387-336-8	Sequence 8, Appl
26	31	9.0	2031	13	US-10-387-336-7	Sequence 7, Appl
27	31	9.0	2433	9	US-09-973-025-49	Sequence 49, Appl
28	31	9.0	2433	10	US-09-899-303-49	Sequence 49, Appl
29	31	9.0	2433	10	US-09-995-860-49	Sequence 49, Appl
30	31	9.0	2433	10	US-09-995-860-49	Sequence 49, Appl
31	31	9.0	2433	10	US-09-995-791-49	Sequence 49, Appl
32	31	9.0	2433	17	US-10-321-798-49	Sequence 49, Appl
33	31	9.0	9365	10	US-09-827-688-7	Sequence 7, Appl
34	31	9.0	9379	9	US-09-916-359-1	Sequence 1, Appl
35	31	9.0	9401	17	US-10-435-724-1	Sequence 1, Appl
36	31	9.0	9413	10	US-09-827-688-6	Sequence 6, Appl
37	31	9.0	9416	9	US-09-238-076-19	Sequence 19, Appl
38	31	9.0	9416	9	US-09-929-955-13	Sequence 13, Appl
39	31	9.0	9416	10	US-09-995-937-19	Sequence 19, Appl
40	31	9.0	9416	10	US-09-917-563-19	Sequence 19, Appl
41	31	9.0	9416	14	US-10-104-966-13	Sequence 13, Appl
42	31	9.0	9416	17	US-10-719-619-13	Sequence 13, Appl
43	31	9.0	9599	13	US-10-189-359-13	Sequence 13, Appl
44	31	9.0	9622	17	US-10-475-989-2	Sequence 2, Appl
45	31	9.0	9646	9	US-09-742-659-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1

US-09-873-224-147  
; Sequence 147, Application US/09873224  
; Publication No. US20030064360A1  
; GENERAL INFORMATION:  
; APPLICANT: <Unknown>  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; NUMBER OF SEQUENCES: 270  
; CORRESPONDENCE ADDRESS:  
; STREET: Industriepark Zwijnaarde 7, box 4  
; CITY: Ghent  
; COUNTRY: Belgium  
; ZIP: B-9052  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA: US/09/873,224  
; APPLICATION NUMBER: US/09/873,224  
; FILING DATE: 05-Jun-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Innogenetics sa.  
; TELEPHONE: 00 32 9 241 07 11  
; TELEFAX: 00 32 9 241 07 99  
; INFORMATION FOR SEQ ID NO: 147:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 345 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..345  
FEATURE:  
NAME/KEY: mat\_peptide  
LOCATION: 1..342  
SEQUENCE DESCRIPTION: SEQ ID NO: 147:  
US-09-873-224-147

Query Match 100.0%; Score 345; DB 13; Length 345;  
Best Local Similarity 100.0%; Pred. No. 5e-171;  
Matches 345; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACACCAACCCCGGCACAGG 60  
Db 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACACCAACCCCGGCACAGG 60

QY 61 ACCTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACACCGAGG 120  
Db 61 ACCTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACACCGAGG 120

QY 121 GCCCCAGTGGGTGCGTCAGTGCAGCAACTTCCAGCGGTCCGCAACTCTGCAGTA 180  
Db 121 GCCCCAGTGGGTGCGTCAGTGCAGCAACTTCCAGCGGTCCGCAACTCTGCAGTA 180

QY 181 GCGGCCAACCCATCCCGAGCGCGCCGCAACGAGGCGAGTCTCGGCTCAGCCCGGT 240  
Db 181 GCGGCCAACCCATCCCGAGCGCGCCGCAACGAGGCGAGTCTCGGCTCAGCCCGGT 240

QY 241 ACCCTTGGCCCTTATATGGAATGAGGGTGGCGGTGGCGAGGTGGTCTGTCTCCCGC 300  
Db 241 ACCCTTGGCCCTTATATGGAATGAGGGTGGCGGTGGCGAGGTGGTCTGTCTCCCGC 300

QY 301 GCGGCTCTCGCGCGTGTGGGCGCCAAATGACCCCGGCGAGGA 345  
Db 301 GCGGCTCTCGCGCGTGTGGGCGCCAAATGACCCCGGCGAGGA 345

## RESULT 2

US-09-851-138-49  
Sequence 49, Application US/09851138  
Publication No. US20020183508A1  
GENERAL INFORMATION:  
APPLICANT: MAERTENS, GEERT  
STUYVER, LIEVEN  
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS  
NUMBER OF SEQUENCES: 207  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ARNOLD, WHITE & DURKEE  
STREET: P.O. BOX 4433  
CITY: HOUSTON  
STATE: TEXAS  
COUNTRY: USA  
ZIP: 77210-4433  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word 6.0 / ASCII text output  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/851,138  
FILING DATE: 09-May-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/836,075  
FILING DATE: <Unknown>  
APPLICATION NUMBER: EP 94870166.9  
FILING DATE: 21 Oct 1994  
APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: KAMMERER, PATRICIA A.  
REGISTRATION NUMBER: 29,775  
REFERENCE/DOCKET NUMBER: INNS:004  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 309 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
SEQUENCE DESCRIPTION: SEQ ID NO: 49:  
US-09-851-138-49

Query Match 89.6%; Score 309; DB 9; Length 309;  
Best Local Similarity 100.0%; Pred. No. 4.2e-152;  
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACACCAACCCCGGCACAGG 60  
Db 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACACCAACCCCGGCACAGG 60

QY 61 ACCTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACACCGAGG 120  
Db 61 ACCTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTTACACCGAGG 120

QY 121 GCCCCAGTGGGTGCGTCAGTGCAGCAACTTCCAGCGGTCCGCAACTCTGCAGTA 180  
Db 121 GCCCCAGTGGGTGCGTCAGTGCAGCAACTTCCAGCGGTCCGCAACTCTGCAGTA 180

QY 181 GCGGCCAACCCATCCCGAGCGCGCCGCAACGAGGCGAGTCTCGGCTCAGCCCGGT 240  
Db 181 GCGGCCAACCCATCCCGAGCGCGCCGCAACGAGGCGAGTCTCGGCTCAGCCCGGT 240

QY 241 ACCCTTGGCCCTTATATGGAATGAGGGTGGCGGTGGCGAGGTGGTCTGTCTCCCGC 300  
Db 241 ACCCTTGGCCCTTATATGGAATGAGGGTGGCGGTGGCGAGGTGGTCTGTCTCCCGC 300

QY 301 GCGGCTCTC 309  
Db 301 GCGGCTCTC 309

## RESULT 3

US-09-899-046-147  
Sequence 147, Application US/09899046  
Publication No. US20030008274A1  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
genotypes for diagnosis, prophylaxis and therapy.  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/899,046  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 147:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 346 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA

```
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; US-09-899-046-147

Query Match
Best Local Similarity 100.0%; Pred. No. 2.8e-145; Length 346;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 50 CCGGCCACAGACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCT 109
DB 51 CCGGCCACAGACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCT 110
QY 110 ACCACGACAGGGGCCCCCAGTTGGGTGTCGTGAGTGGCGAAGACTTCGAGCGGTGCGA 169
DB 111 ACCACGACAGGGGCCCCCAGTTGGGTGTCGTGAGTGGCGAAGACTTCGAGCGGTGCGA 170
QY 170 ACTTCGAGTAGGCGCCCAACCCATCCCGAGCGCGCGCGAACCAGCGGCGAGTCTCTGGGC 229
DB 171 ACTTCGAGTAGGCGCCCAACCCATCCCGAGCGCGCGCGAACCAGCGGCGAGTCTCTGGGC 230
QY 230 TCAGCCCGGGTACCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGGCT 289
DB 231 TCAGCCCGGGTACCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGGCT 290
QY 290 CCTGTCCCGCGCGGCTCTCGCCCTGTCGGGGCCCAATGACCCCGCGCGCAGGA 345
DB 291 CCTGTCCCGCGCGGCTCTCGCCCTGTCGGGGCCCAATGACCCCGCGCGCAGGA 346

RESULT 4
US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; US-09-878-281-147

Query Match
85.8%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 2.8e-145;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
; Best Local Similarity 100.0%; Pred. No. 2.8e-145;
; Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 50 CCGGCCACAGGACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCT 109
DB 51 CCGGCCACAGGACGTTAAGTTCCAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCT 110
QY 110 ACCACGACAGGGGCCCCCAGTTGGGTGTCGTGAGTGGCGAAGACTTCGAGCGGTGCGA 169
DB 111 ACCACGACAGGGGCCCCCAGTTGGGTGTCGTGAGTGGCGAAGACTTCGAGCGGTGCGA 170
QY 170 ACTTCGAGTAGGCGCCCAACCCATCCCGAGCGCGCGCGAACCAGCGGCGAGTCTCTGGGC 229
DB 171 ACTTCGAGTAGGCGCCCAACCCATCCCGAGCGCGCGCGAACCAGCGGCGAGTCTCTGGGC 230
QY 230 TCAGCCCGGGTACCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGGCT 289
DB 231 TCAGCCCGGGTACCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGAGGGTGGCT 290
QY 290 CCTGTCCCGCGCGGCTCTCGCCCTGTCGGGGCCCAATGACCCCGCGCGCAGGA 345
DB 291 CCTGTCCCGCGCGGCTCTCGCCCTGTCGGGGCCCAATGACCCCGCGCGCAGGA 346

RESULT 5
US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication No. US20030053987A1
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
; US-09-194-949-5

Query Match
12.5%; Score 43; DB 10; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.5e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
DB 212 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254

RESULT 6
US-09-851-138-65
; Sequence 65, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
```

ADDRESSEE: ARNOLD, WHITE & DURKEE  
STREET: P.O. BOX 4433  
CITY: HOUSTON  
STATE: TEXAS  
COUNTRY: USA  
ZIP: 77210-4433  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word 6.0 / AS  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/851,138  
FILING DATE: 09-May-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/836,075  
FILING DATE: <Unknown>  
APPLICATION NUMBER: EP 94870166.9  
FILING DATE: 21 Oct 1994  
APPLICATION NUMBER: EP 85870075.7  
FILING DATE: 28 Jun 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: KAMMERER, PATRICIA A.  
REGISTRATION NUMBER: 29,775  
REFERENCE/DOCKET NUMBER: INNS:004

Query Match 12.5%; Score 43; DB 9; Length 831;  
Best Local Similarity 100.0%; Pred. No. 2.4e-12;  
Matches 43; Conservative 0; Mismatches 0; Indels

Qy	211	CCGAGGGCAGGTCCTGGGCTCAGCCCGGTACCCCTTGGCCCT	253
Dh	227	CCGAGGGCAGGTCCTGGGCTCAGCCCGGTACCCCTTGGCCCT	269

```

RESULT 7
US-09-921-397-39
; Sequence 39, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: STD nucleic acids and
; TITLE OF INVENTION: pathogenic strain of
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921.397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-09-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-39

```

Query Match 9.0%; Score 31; DB 9; Length 152;  
Best Local Similarity 100.0%; Pred. No. 5.7e-06;  
Matches 31; Conservative 0; Mismatches 0; Indels

QY 223 CCTGGGCTCAGCCCGGGTACCCTTGGCCCT 253

db 120 CCTGGGCTAGCCCGGGTACCCCTTGGCCCT 150

```

RESULT 8
US-09-921-397-41
; Sequence 41, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; LENGTH: 234
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-41

```

Query Match 9.0%; Score 31; DB 9; Length 234;  
Best Local Similarity 100.0%; Pred.No. 5.5e-06;  
Matches 31; Conservative 0; Mismatches 0; Indels

Qy 223 CCTGGGCTCAGCCCGGGTACCTTGGCCCT 253  
|||  
Db 186 CCTGGGCTCAGCCCGGGTACCTTGGCCCT 216  
|||

```

RESULT 9
US-10-071-867-16
; Sequence 16, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: CreaGene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
; FILE REFERENCE: CreaGene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071.867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: Kopatentin 1.71
; SEQ ID NO 16
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-100
US-10-071-867-16

```

```
Query Match      9.0%; Score 31; DB 15; Length 300;
Best Local Similarity 100.0%; Pred. No. 5.4e-06;
Matches 31: Conservative 0; Mismatches 0; Indels
```

Qy 223 CTTGGGCTCAGCCCGGGTACCTTGGCCCT 253  
|||  
Db 224 CTTGGGCTCAGCCCGGGTACCTTGGCCCT 254  
|||

RESULT 10  
US-09-921-3997-114  
; Sequence 114. Application US/099213997  
; Patent No. US20020151484A1  
; GENERAL INFORMATION:  
; APPLICANT: HYBRIGENICS

;; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a  
;; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and  
;; TITLE OF INVENTION: applications thereof  
;; FILE REFERENCE: B4809A - JAZ  
;; CURRENT APPLICATION NUMBER: US/09/921.397  
;; CURRENT FILING DATE: 2001-08-02  
;; PRIOR APPLICATION NUMBER: EP 00402225.7  
;; PRIOR FILING DATE: 2000-08-03  
;; NUMBER OF SEQ ID NOS: 156  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 114  
;; LENGTH: 310  
;; TYPE: DNA  
;; ORGANISM: Hepatitis C virus  
US-09-921-397-114

Query Match 9.0%; Score 31; DB 9; Length 310;  
Best Local Similarity 100.0%; Pred. No. 5.3e-06;  
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253  
|||  
Db 264 CCTGGGCTCAGCCGGGTACCTTGGCCCT 294  
|||

RESULT 11  
US-09-851-138-1  
; Sequence 1, Application US/09851138  
; Publication No. US20020183508A1  
; GENERAL INFORMATION:  
; APPLICANT: MAERTENS, GEERT  
; STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
; AGENTS  
; NUMBER OF SEQUENCES: 207  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARNOLD, WHITE & DURKEE  
; STREET: P.O. BOX 4433  
; CITY: HOUSTON  
; STATE: TEXAS  
; COUNTRY: USA  
; ZIP: 77210-4433  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Microsoft Word 6.0 / ASCII text output  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/851.138  
; FILING DATE: 09-May-2001  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/836,075  
; FILING DATE: <Unknown>  
; APPLICATION NUMBER: EP 94870166.9  
; FILING DATE: 21 Oct 1994  
; APPLICATION NUMBER: EP 95870076.7  
; FILING DATE: 28 Jun 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KAMMERER, PATRICIA A.  
; REGISTRATION NUMBER: 29,775  
; REFERENCE/DOCKET NUMBER: INNS:004  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 327 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-851-138-1

Query Match 9.0%; Score 31; DB 9; Length 327;  
Best Local Similarity 100.0%; Pred. No. 5.3e-06;  
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CGAGGGCAGGTCTCTGGGCTCAGCCCGGTA 241  
|||  
Db 212 CGAGGGCAGGTCTCTGGGCTCAGCCCGGTA 242  
|||

RESULT 12  
US-09-921-397-115  
; Sequence 115, Application US/09921397  
; Patent No. US20020151484A1  
; GENERAL INFORMATION:  
; APPLICANT: HYBRIGENICS  
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a  
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and  
; TITLE OF INVENTION: applications thereof  
; FILE REFERENCE: B4809A - JAZ  
; CURRENT APPLICATION NUMBER: US/09/921.397  
; CURRENT FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: EP 00402225.7  
; PRIOR FILING DATE: 2000-08-03  
; NUMBER OF SEQ ID NOS: 156  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 115  
; LENGTH: 339  
; TYPE: DNA  
; ORGANISM: Hepatitis C virus  
US-09-921-397-115

Query Match 9.0%; Score 31; DB 9; Length 339;  
Best Local Similarity 100.0%; Pred. No. 5.3e-06;  
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253  
|||  
Db 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254  
|||

RESULT 13  
US-09-306-780-3  
; Sequence 3, Application US/09306780  
; Publication No. US20010051336A1  
; GENERAL INFORMATION:  
; APPLICANT: TAKEMURA, FUMINORI  
; UENO, EIICHI  
; ITOH, SATORU  
; TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD  
; OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND  
; IMMUNOASSAY USING THE POLYPEPTIDE.  
; NUMBER OF SEQUENCES: 20  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,  
; P.C.  
; STREET: 1765 S. JEFFERSON DAVIS HIGHWAY, SUITE 400  
; CITY: ARLINGTON  
; STATE: VA  
; COUNTRY: U.S.A.  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/306.780  
; FILING DATE: 07-May-1999  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/841,657A  
; FILING DATE: 30-APR-1997

```

; APPLICATION NUMBER: JP 8-134444
; FILING DATE: 01-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 2084-033-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 360 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "synthetic DNA"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..360
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-780-3
Query Match          9.0%; Score 31; DB 13; Length 360;
Best Local Similarity 100.0%; Pred. No. 5.3e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CTTGGGCTCAGCCCGGGTACCCCTTGCCCT 253
Db 224 CTTGGGCTCAGCCCGGGTACCCCTTGCCCT 254

RESULT 14
US-09-306-780-5
; Sequence 5, Application US/09306780
; Publication No. US20010051336A1
; GENERAL INFORMATION:
; APPLICANT: TAKEMURA, FUMINORI
; UENO, EIICHI
; ITOH, SATORU
; TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD
; OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND
; IMMUNOASSAY USING THE POLYPEPTIDE.
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
; P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/09/306,780
; FILING DATE: 07-May-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/841,657A
; FILING DATE: 30-APR-1997
; APPLICATION NUMBER: JP 8-134444
; FILING DATE: 01-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 2084-033-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220

; APPLICATION NUMBER: JP 8-134444
; FILING DATE: 01-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 2084-033-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 450 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "synthetic DNA"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..450
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-306-780-5
Query Match          9.0%; Score 31; DB 13; Length 450;
Best Local Similarity 100.0%; Pred. No. 5.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CTTGGGCTCAGCCCGGGTACCCCTTGCCCT 253
Db 224 CTTGGGCTCAGCCCGGGTACCCCTTGCCCT 254

RESULT 15
US-10-071-867-15
; Sequence 15, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: Creagene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; FILE REFERENCE: Creagene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071,867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: KR 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: Kopatentin 1.71
; SEQ ID NO 15
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-160
US-10-071-867-15
Query Match          9.0%; Score 31; DB 15; Length 480;
Best Local Similarity 100.0%; Pred. No. 5.1e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CTTGGGCTCAGCCCGGGTACCCCTTGCCCT 253
Db 224 CTTGGGCTCAGCCCGGGTACCCCTTGCCCT 254

Search completed: August 17, 2004, 14:29:34
Job time : 357 secs
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GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: August 10, 2004, 20:37:41 ; Search time 20.5 seconds  
(without alignments)  
1737.655 Million cell updates/sec

Title: US-09-873-224a-147

Perfect score: 639

Sequence: 1 atgagcacacttcttaaac.....aaatgaccccgccgagga 345

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-Q=/cgn2\_1/uspro.spool/p/US09873224/runat 10082004 170934 17629/app query.fasta\_1.519  
-DB=Issued Patents AA -OPT=fastan -SUFFIX=n2p.ra1 -MINMATCH=0.1 -LOOPEL=0  
-LOOPEXT=0 -UNITS=bits START=1 -END=1 -MATRIX=blosum62 -TRANS-human40.cdi  
-LIST=45 -DOALIGN=200 -THR\_SCORE=pct -THR\_MAX=100 -THR\_MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09873224.cgn1\_1\_27@runat 10082004 170934 17629 -NCPU=6 -ICPU=3  
-NO MWAP -LARGQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA.\*

1: /cgn2\_6/ptodata/2/iaa/5A.COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B.COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A.COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B.COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PCTUS.COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	608	95.1	115	3	US-08-836-075A-50
2	588	92.0	191	2	Sequence 50, Appl
3	588	92.0	191	2	Sequence 187, App
4	588	92.0	191	2	Sequence 188, App
5	588	92.0	191	2	Sequence 189, App
6	588	92.0	191	5	Sequence 190, App
7	588	92.0	191	5	Sequence 191, App
8	587	91.9	191	2	Sequence 192, App
9	587	91.9	191	2	Sequence 193, App
10	574	89.8	191	2	Sequence 194, App
11	574	89.8	191	2	Sequence 195, App
12	574	89.8	191	2	Sequence 196, App

13	574	89.8	191	5	PCT-US95-10398-192	Sequence 192, App
14	574	89.8	191	5	PCT-US95-10398-193	Sequence 193, App
15	574	89.8	191	5	PCT-US95-10398-195	Sequence 195, App
16	571	89.4	319	3	US-08-836-075A-12	Sequence 12, Appl
17	571	89.4	319	4	US-08-835-886C-199	Sequence 199, App
18	571	89.4	319	4	US-08-974-690C-199	Sequence 199, App
19	570	89.2	191	2	US-08-290-665A-196	Sequence 196, App
20	570	89.2	191	5	PCT-US95-10398-196	Sequence 196, App
21	569	89.0	450	4	US-08-635-886C-181	Sequence 181, App
22	569	89.0	450	4	US-08-974-690C-181	Sequence 181, App
23	569	89.0	2894	2	US-08-466-975A-23	Sequence 23, Appl
24	569	89.0	2894	2	US-08-391-671A-23	Sequence 23, Appl
25	569	89.0	2894	3	US-08-467-902A-23	Sequence 23, Appl
26	569	89.0	2894	3	US-09-275-265-23	Sequence 23, Appl
27	569	89.0	2894	4	US-09-941-611-23	Sequence 23, Appl
28	568	88.9	182	4	US-10-104-966-2	Sequence 2, Appl
29	568	88.9	191	2	US-08-290-665A-156	Sequence 156, App
30	568	88.9	191	2	US-08-290-665A-157	Sequence 157, App
31	568	88.9	191	2	US-08-290-665A-158	Sequence 158, App
32	568	88.9	191	2	US-08-290-665A-159	Sequence 159, App
33	568	88.9	191	2	US-08-290-665A-160	Sequence 160, App
34	568	88.9	191	2	US-08-290-665A-191	Sequence 191, App
35	568	88.9	191	2	US-08-290-665A-197	Sequence 197, App
36	568	88.9	191	3	US-08-380-160-3	Sequence 3, Appl
37	568	88.9	191	5	PCT-US95-10398-156	Sequence 156, App
38	568	88.9	191	5	PCT-US95-10398-157	Sequence 157, App
39	568	88.9	191	5	PCT-US95-10398-158	Sequence 158, App
40	568	88.9	191	5	PCT-US95-10398-159	Sequence 159, App
41	568	88.9	191	5	PCT-US95-10398-160	Sequence 160, App
42	568	88.9	191	5	PCT-US95-10398-191	Sequence 191, App
43	568	88.9	191	5	PCT-US95-10398-197	Sequence 197, App
44	568	88.9	319	4	US-08-635-886C-217	Sequence 217, App
45	568	88.9	319	4	US-08-974-690C-217	Sequence 217, App

ALIGNMENTS

RESULT 1

US-08-836-075A-50  
; Sequence 50, Application US/08836075A  
; Patent No. 6180768  
; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT  
; APPLICANT: STUYVER, LIEVEN  
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES  
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC  
; TITLE OF INVENTION: AGENTS  
; NUMBER OF SEQUENCES: 207  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: ARNOLD WHITE & DURKEE  
; STREET: P.O. BOX 4433  
; CITY: HOUSTON  
; STATE: TEXAS  
; COUNTRY: USA  
; ZIP: 77210-4433  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Microsoft Word 6.0 / ASCII text output  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/836,075A  
; FILING DATE: 21 Apr 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/EP95/04155  
; FILING DATE: 23 Oct 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: EP 94870166.9  
; FILING DATE: 21 Oct 1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: EP 95870076.7  
; FILING DATE: 28 Jun 1995  
; ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.  
 REGISTRATION NUMBER: 29,775  
 REFERENCE/DOCKET NUMBER: INNS:004  
 INFORMATION FOR SEQ ID NO: 50:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 115 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-836-075A-50

Alignment Scores:  
 Pred. No.: 3 66e-50 Length: 115  
 Score: 608.00 Matches: 114  
 Percent Similarity: 99.13% Conservative: 0  
 Best Local Similarity: 99.13% Mismatches: 1  
 Query Match: 95.15% Indels: 1  
 DB: 3 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

QY 1 ATGAGCACCTTCTTAACACCAAGAAACCAACACCAACCC-CGGCCACAG 59  
 Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn\*\*\*ArgProGln 20  
 QY 60 GACGTTAAGTTCACAGCGCGGTACAGTCGTTGGTGGAGTTTACGTGTACACGCGAGG 119  
 Db 21 AspValLysPheProGlyGlyGlyGlnLeValGlyValTyValLeuProArgArg 40  
 QY 120 GGCCCCAGTGGGTGTGGTCAGTCGACAGACTTCGACGCGTGCACCTCGCAGT 179  
 Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60  
 QY 180 AGCGCCCAACCCATCCCGCGCGCCGACCGAGCGGCGAGTCTGGGCTCAGCCCGGG 239  
 Db 61 ArgArgGlnProLeuProArgAlaValArgThrGluGlyArgSerTrpAlaGlnProGly 80  
 QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTCGGGTGGCGAGGGTGGCTCTGTCCTCCCG 299  
 Db 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
 QY 300 CGCGGCTCTCGCCGTCGTCGGGCCCAATGACCCCGCGCAGG 344  
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

# RESULT 2

US-08-290-665A-187  
 Sequence 187, Application US/08290665A  
 Patent No. 5882852  
 GENERAL INFORMATION:  
 APPLICANT: BURKH, J., MILLER, R. H. AND  
 APPLICANT: PURCELL, R. H.  
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
 NUMBER OF SEQUENCES: 263  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: MORGAN & FINNEGAN  
 STREET: 345 PARK AVENUE  
 CITY: NEW YORK  
 STATE: NEW YORK  
 COUNTRY: USA  
 ZIP: 10154  
 COMPUTER READABLE FORM: DISK  
 MEDIUM TYPE: FLOPPY  
 COMPUTER: IBM PC COMPATIBLE  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: WORDPERFECT 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/290,665A  
 FILING DATE: 15-AUG-1994

CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: RICHARD W. BORK  
 REGISTRATION NUMBER: 36,459  
 REFERENCE/DOCKET NUMBER: 2026-4116  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 758-4800  
 TELEFAX: (212) 751-6849  
 TELEX: 421792  
 INFORMATION FOR SEQ ID NO: 187:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 191 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 ORIGINAL SOURCE:  
 ORGANISM: homosapiens  
 INDIVIDUAL ISOLATE: HK10  
 US-08-290-665A-187

Alignment Scores:  
 Pred. No.: 3 19e-48 Length: 191  
 Score: 588.00 Matches: 108  
 Percent Similarity: 96.52% Conservative: 3  
 Best Local Similarity: 93.91% Mismatches: 4  
 Query Match: 92.02% Indels: 1  
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-187 (1-191)

QY 1 ATGAGCACCTTCTTAACACCAAGAAACCAACACCAACCC-CGGCCACAG 59  
 Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20  
 QY 60 GACGTTAAGTTCACAGCGCGGTACAGTCGTTGGTGGAGTTTACGTGTACACGCGAGG 119  
 Db 21 AspValLysPheProGlyGlyGlyGlnLeValGlyValTyValLeuProArgArg 40  
 QY 120 GGCCCCAGTGGGTGTGGTCAGTCGACAGACTTCGACGCGTGCACCTCGCAGT 179  
 Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgGly 60  
 QY 180 AGCGCCCAACCCATCCCGCGCGCCGACCGAGCGGCGAGTCTGGGCTCAGCCCGGG 239  
 Db 61 ArgArgGlnProLeuProLysAlaValArgSerGluGlyArgSerTrpAlaGlnProGly 80  
 QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTCGGGTGGCGAGGGTGGCTCTGTCCTCCCG 299  
 Db 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
 QY 300 CGCGGCTCTCGCCGTCGTCGGGCCCAATGACCCCGCGCAGG 344  
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

# RESULT 3

US-08-290-665A-188  
 Sequence 188, Application US/08290665A  
 Patent No. 5882852  
 GENERAL INFORMATION:  
 APPLICANT: BURKH, J., MILLER, R. H. AND  
 APPLICANT: PURCELL, R. H.  
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
 NUMBER OF SEQUENCES: 263  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: MORGAN & FINNEGAN  
 STREET: 345 PARK AVENUE  
 CITY: NEW YORK  
 STATE: NEW YORK  
 COUNTRY: USA





US-09-873-224A-147 (1-345) x PCT-US95-10398-188 (1-191)

QY 1 ATGAGCACACTTCCTAAACACCAAGAAAGAAACCAAAACCAACCAAA-CCCGCGCCACAG 59  
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20

QY 60 GACGTTAAGTTCACGCGCGGTGCAGATCGTGGTGAGTTACGTCTACCAACGAGG 119  
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40

QY 120 GCGCCCAAGTGGGTGGCGTGCAGTCCGCAAGACTTCCAGAGGCTCGCAACCTCGCAGT 179  
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 180 AGGCGCAACCCATCCCAAGCGCGCGCAACCGAGCGCGTCTGGGCTCAGCCCGGG 239  
Db 61 ArgArgGlnProIleProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80

QY 240 TACCTTGGCCCTATATGGGAATGAGGCTGGCGGTGGCGAGGTGGCTCTGCTCCCG 299  
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 300 CGCGGCTCTCGCCGCTCGTGGGCGCCAAATCACCCTCCGCGCAGG 344  
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 7

PCT-US95-10398-190

Sequence 190, Application PC/TUS9510398

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/10398

FILING DATE: 15-AUG-1995

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/086,428

FILING DATE: 29 JUNE 1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/290/665

FILING DATE: 15 AUGUST 1994

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 190:

SEQUENCE CHARACTERISTICS:

LENGTH: 191 amino acids

TYPE: amino acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

ORIGINAL SOURCE:

ORGANISM: homosapiens

INDIVIDUAL ISOLATE: DK12

PCT-US95-10398-190

Alignment Scores:

Pred. No.: 3,198-48 Length: 191

Score: 588.00 Matches: 108

Percent Similarity: 96.52% Conservative: 3

Best Local Similarity: 93.91% Mismatches: 4

Query Match: 92.02% Indels: 1

DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-190 (1-191)

QY 1 ATGAGCACACTTCCTAAACACCAAGAAAGAAACCAAAACCAACCAAA-CCCGCGCCACAG 59  
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20

QY 60 GACGTTAAGTTCACGCGCGGTGCAGATCGTGGTGAGTTACGTCTACCAACGAGG 119  
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40

QY 120 GCGCCCAAGTGGGTGGCGTGCAGTCCGCAAGACTTCCAGAGGCTCGCAACCTCGCAGT 179  
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

QY 180 AGGCGCAACCCATCCCAAGCGCGCGCAACCGAGCGCGTCTGGGCTCAGCCCGGG 239  
Db 61 ArgArgGlnProIleProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80

QY 240 TACCTTGGCCCTATATGGGAATGAGGCTGGCGGTGGCGAGGTGGCTCTGCTCCCG 299  
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

QY 300 CGCGGCTCTCGCCGCTCGTGGGCGCCAAATCACCCTCCGCGCAGG 344  
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 8

US-08-290-665A-189

Sequence 189, Application US/08290665A

Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459



TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 192:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 191 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: Z8  
US-08-290-665A-192

Alignment Scores:  
Pred. No.: 6.88e-47 Length: 191  
Score: 574.00 Matches: 106  
Percent Similarity: 95.65% Conservative: 4  
Best Local Similarity: 92.17% Mismatches: 5  
Query Match: 89.83% Indels: 1  
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)

Qy	1	ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACACCC-CCGCCACAG	59
Db	1	MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet	20
Qy	60	GACGTTAAGTTCACGCGCGGTCAGATCGTGGAGTTTACGTCTACACGCGAG	119
Db	21	AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArg	40
Qy	120	GGCCCCCAGTTGGGTGTCGTCGACGTCGCAAGACTCCGAGCGGTCCGCACTCGCAGT	179
Db	41	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly	60
Qy	180	AGGCCCAACCATCCCGCGCGCCGACGACCGAGCGGCGAGTCTGGGCTACCCCGG	239
Db	61	ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly	80
Qy	240	TACCCCTGGCCCTATATGGGAATGAGGCTCGCGGTGGGCGAGGTGCTCTCTCCCGC	299
Db	81	TyrProTrpProLeuTyrglyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro	100
Qy	300	CCCGCTCTCCCGCTCTGGGGCCCAATGACCCCGCGCGAG	344
Db	101	ArgGlySerArgProSerTrpGlyProAsnAspProArgArg	115

RESULT 11  
US-08-290-665A-193  
Sequence 193, Application US/08290665A  
Patent No. 5882852  
GENERAL INFORMATION:  
APPLICANT: BUKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 193:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 191 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: Z1  
US-08-290-665A-193

Alignment Scores:  
Pred. No.: 6.88e-47 Length: 191  
Score: 574.00 Matches: 106  
Percent Similarity: 95.65% Conservative: 4  
Best Local Similarity: 92.17% Mismatches: 5  
Query Match: 89.83% Indels: 1  
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)

Qy	1	ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACACCC-CCGCCACAG	59
Db	1	MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet	20
Qy	60	GACGTTAAGTTCACGCGCGGTCAGATCGTGGAGTTTACGTCTACACGCGAG	119
Db	21	AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArg	40
Qy	120	GGCCCCCAGTTGGGTGTCGTCGACGTCGCAAGACTCCGAGCGGTCCGCACTCGCAGT	179
Db	41	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly	60
Qy	180	AGGCCCAACCATCCCGCGCGCCGACGACCGAGCGGCGAGTCTGGGCTACCCCGG	239
Db	61	ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly	80

QY 240 TACCTTGGCCCTATATGGGAATAGGGCTGGGGTGGSCAGGGTGGCTCTGTCTCCCG 299  
 Db 81 TyProltrProLeuTyGlyAenGluGlyCySgLyTrpAlaGlyTrpLeuLeuSerPro 100  
 QY 300 CGGGCTCTCGCCCGTGGTGGGCCCAAAATGACCCCGGCGCAGG 344  
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

## RESULT 12

US-08-290-665A-195  
 ; Sequence 195, Application US/08290665A  
 ; Patent No. 5882852  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BUKH, J., MILLER, R.H. AND  
 ; APPLICANT: PURCELL, R.H.  
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
 ; NUMBER OF SEQUENCES: 263  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: MORGAN & FINNEGAN  
 ; STREET: 345 PARK AVENUE  
 ; CITY: NEW YORK  
 ; STATE: NEW YORK  
 ; COUNTRY: USA  
 ; ZIP: 10154

COMPUTER READABLE FORM:  
 MEDIUM TYPE: FLOPPY DISK  
 COMPUTER: IBM PC COMPATIBLE  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: WORDPERFECT 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/290,665A  
 FILING DATE: 15-AUG-1994  
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
 NAME: RICHARD W. BORK  
 REGISTRATION NUMBER: 36,459  
 REFERENCE/DOCKET NUMBER: 2026-4116  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 758-4800  
 TELEFAX: (212) 751-6849  
 TELEX: 421792

INFORMATION FOR SEQ ID NO: 195:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 191 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 ORIGINAL SOURCE:  
 ORGANISM: homosapiens  
 INDIVIDUAL ISOLATE: Z6  
 US-08-290-665A-195

Alignment Scores:  
 Pred. No.: 6.88e-47 Length: 191  
 Score: 574.00 Matches: 106  
 Percent Similarity: 95.65% Conservative: 4  
 Best Local Similarity: 92.17% Mismatches: 5  
 Query Match: 89.83% Indels: 1  
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-195 (1-191)

QY 1 ATGACGACACTTCTTAACACCAAGAAACCAAAAGAAACACCAACCC-CGGCCACAG 59

Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

QY 60 GACGTTAACTTCCAGCGCGTACAGTCTGGTGGAGTTTACGTGTACACGACAGG 119  
 Pred. No.: 6.88e-47 Length: 191

Db 21 AspVallysPheProGlyGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 40  
 QY 120 GGCCCCCAGTGGGTGGTGGTGGAGTGGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGT 179  
 Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60  
 QY 180 AGGGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTGGGCTCAGCCCGGG 239  
 Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80  
 QY 240 TACCTTGGCCCCCTATATGGGAATAGGGCTGGGGTGGCGAGGTGGCTCTCTGTCCCCG 299  
 Db 81 TyProltrProLeuTyGlyAenGluGlyCySgLyTrpAlaGlyTrpLeuLeuSerPro 100  
 QY 300 CGGGCTCTCGCCCGTGGTGGGCCCAAAATGACCCCGGCGCAGG 344  
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

## RESULT 13

PCT-US95-10398-192  
 ; Sequence 192, Application PC/TUS9510398  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BUKH, J., MILLER, R.H. AND  
 ; APPLICANT: PURCELL, R.H.  
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
 ; NUMBER OF SEQUENCES: 263  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: MORGAN & FINNEGAN  
 ; STREET: 345 PARK AVENUE  
 ; CITY: NEW YORK  
 ; STATE: NEW YORK  
 ; COUNTRY: USA  
 ; ZIP: 10154

COMPUTER READABLE FORM:  
 MEDIUM TYPE: FLOPPY DISK  
 COMPUTER: IBM PC COMPATIBLE  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: WORDPERFECT 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/10398  
 FILING DATE: 15-AUG-1995  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/086,428  
 FILING DATE: 29 JUNE 1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/290/665  
 FILING DATE: 15 AUGUST 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: RICHARD W. BORK  
 REGISTRATION NUMBER: 36,459  
 REFERENCE/DOCKET NUMBER: 2026-4116  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 758-4800  
 TELEFAX: (212) 751-6849  
 TELEX: 421792

INFORMATION FOR SEQ ID NO: 192:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 191 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 ORIGINAL SOURCE:  
 ORGANISM: homosapiens  
 INDIVIDUAL ISOLATE: Z8  
 PCT-US95-10398-192

Alignment Scores:  
 Pred. No.: 6.88e-47 Length: 191



Score: 574.00 Matches: 106  
Percent Similarity: 95.65% Conservative: 4  
Best Local Similarity: 92.17% Mismatches: 5  
Query Match: 89.83% Indels: 1  
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-192 (1-191)

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAAACCAACCAACCC-CGGCCACAG 59  
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgAArgProMet 20  
QY 60 GACGTTAAGTCCAGCGCGCGTCAGATCGTGGTGGAGTTACGTGTACCAACGAGG 119  
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyLeuLeuProAArg 40  
QY 120 GGCCCCCAGTTGGGTGGCGTGCAGTGCAGAACTTCCGAGCGGTCCGCAACTCCGAGT 179  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProAArgGly 60  
QY 180 AGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTGGGTCTAGCCCGGG 239  
DB 61 ArgArgGlnProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80  
QY 240 TACCTTGGCCCTATATGGAAATGAGGCTCGCGGTGGCGAGGTGGCTCTCTCCCG 299  
DB 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 300 CGCGGCTCTCGCGGTCTGGTGGCGCGCAAAATGACCCCGCGGCGAGG 344  
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProAArgArg 115

## RESULT 14

PCT-US95-10398-193  
; Sequence 193, Application PC/TUS9510398  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10398  
; FILING DATE: 15-AUG-1995  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/086,428  
; FILING DATE: 29 JUNE 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/290/665  
; FILING DATE: 15 AUGUST 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: RICHARD W. BORK  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4116  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849

; TELEX: 421792  
; INFORMATION FOR SEQ ID NO: 193:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 191 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; ORIGINAL SOURCE:  
; ORGANISM: homosapiens  
; INDIVIDUAL ISOLATE: Z1  
PCT-US95-10398-193

Alignment Scores:  
Pred. No.: 6,88e-47 Length: 191  
Score: 574.00 Matches: 106  
Percent Similarity: 95.65% Conservative: 4  
Best Local Similarity: 92.17% Mismatches: 5  
Query Match: 89.83% Indels: 1  
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-193 (1-191)

QY 1 ATGAGCACACTTCTTAACACACAAAGAAAAACCAACCAACCC-CGGCCACAG 59  
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgAArgProMet 20  
QY 60 GACGTTAAGTCCAGCGCGCGTCAGATCGTGGTGGAGTTACGTGTACCAACGAGG 119  
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyLeuLeuProAArg 40  
QY 120 GGCCCCCAGTTGGGTGGCGTGCAGTGCAGAACTTCCGAGCGGTCCGCAACTCCGAGT 179  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProAArgGly 60  
QY 180 AGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTGGGTCTAGCCCGGG 239  
DB 61 ArgArgGlnProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80  
QY 240 TACCTTGGCCCTATATGGAAATGAGGCTCGCGGTGGCGAGGTGGCTCTCTCCCG 299  
DB 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 300 CGCGGCTCTCGCGGTCTGGTGGCGCGCAAAATGACCCCGCGGCGAGG 344  
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProAArgArg 115

## RESULT 15

PCT-US95-10398-195  
; Sequence 195, Application PC/TUS9510398  
; GENERAL INFORMATION:  
; APPLICANT: BUKH, J., MILLER, R.H. AND  
; APPLICANT: PURCELL, R.H.  
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
; NUMBER OF SEQUENCES: 263  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10398  
; FILING DATE: 15-AUG-1995

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/086,428  
FILING DATE: 29 JUNE 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/290/665  
FILING DATE: 15 AUGUST 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 195:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 191 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
ORIGINAL SOURCE:  
ORGANISM: hominids  
INDIVIDUAL ISOLATE: Z6  
PCT-US95-10398-195

Alignment Scores:  
Pred. No.: 6.88e-47 Length: 191  
Score: 574.00 Matches: 106  
Percent Similarity: 95.65% Conservative: 4  
Best Local Similarity: 92.17% Mismatches: 5  
Query Match: 89.83% Indels: 1  
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-195 (1-191)

QY 1 ATGAGCACACTTCTAAACCAACAAAGAAACCAACCAACCC-CGGCCACAG 59  
|||||  
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20  
QY 60 GAGGTTAAGTCCAGCGCGGTGAGTCTGTTGGTGGAGTTTACGTGTACACGCGAG 119  
|||||  
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArg 40  
QY 120 GGCCCCCAGTTGGGTGTGCGTGCAGTGCAGACTTCCAGCGGTGCGAACCTCGCAGT 179  
|||||  
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60  
QY 180 AGCGGCGACACCATCCAGCGCGCGCCGCGCGCGCGCGCGCGCGCTCGGCTCAGCCCGG 239  
|||||  
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80  
QY 240 TACCTTGGCCCTATATGGGAATAGGGGTGCGGTGGCGAGGGTGGCTCCTGTCCCGG 299  
|||||  
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 300 CGCGGCTCTCGCCG 344  
|||||  
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

Search completed: August 10, 2004, 20:43:41  
Job time : 22.5 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: August 10, 2004, 20:41:57 ; Search time 43.5 Seconds  
(without alignments)  
4975.660 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 639

Sequence: 1 atgagcacacttcttaaac.....aaatgaccccggcgcagga 345

Scoring table: BLOSUM62

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1291235 seqs, 313682936 residues

Total number of hits satisfying chosen parameters: 2582470

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB=Published Applications AA -QFMT=fastan -SUFFIX=n2p.rapb -MINMATCH=0.1  
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blsum62  
-TRANS=human40.cdi -LIST=45 -DOCALLIGN=200 -THR SCORE=pct -THR MAX=100  
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09873224@cgn\_1\_1\_13 @runat\_10082004\_170936\_17665  
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-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications AA.\*

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3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*  
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17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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1	617	96.6	115	12	US-09-873-224-148	Sequence 148, App
2	608	95.1	115	9	US-09-851-138-50	Sequence 50, Appl
3	608	95.1	115	9	US-09-899-046-148	Sequence 148, App
4	608	95.1	115	10	US-09-878-281-148	Sequence 148, App
5	581	90.9	189	12	US-10-450-649-9	Sequence 9, Appl
6	575	90.0	235	15	US-10-365-620-56	Sequence 58, Appl
7	575	90.0	249	15	US-10-365-620-54	Sequence 60, Appl
8	575	90.0	459	15	US-10-365-620-60	Sequence 56, Appl
9	575	90.0	473	15	US-10-365-620-56	Sequence 59, Appl
10	571	89.4	130	14	US-10-268-569-19	Sequence 12, Appl
11	571	89.4	319	9	US-09-851-138-12	Sequence 199, App
12	571	89.4	319	9	US-10-651-185-199	Sequence 181, App
13	569	89.0	450	12	US-10-651-185-181	Sequence 23, Appl
14	569	89.0	2894	9	US-09-941-611-23	Sequence 23, Appl
15	569	89.0	2894	14	US-10-044-995-23	Sequence 14, Appl
16	568	88.9	151	14	US-10-292-129-14	Sequence 2, Appl
17	568	88.9	182	9	US-09-929-955-2	Sequence 2, Appl
18	568	88.9	182	13	US-10-104-966-2	Sequence 2, Appl
19	568	88.9	182	16	US-10-719-619-2	Sequence 2, Appl
20	568	88.9	319	12	US-10-651-185-217	Sequence 179, App
21	568	88.9	450	12	US-10-651-165-179	Sequence 179, App
22	568	88.9	450	12	US-10-651-165-180	Sequence 180, App
23	568	88.9	3011	9	US-09-742-659-4	Sequence 4, Appl
24	568	88.9	3011	9	US-09-952-572-9	Sequence 9, Appl
25	568	88.9	3011	9	US-09-929-955-1	Sequence 1, Appl
26	568	88.9	3011	9	US-09-747-413-20	Sequence 20, Appl
27	568	88.9	3011	10	US-09-891-894-3	Sequence 3, Appl
28	568	88.9	3011	12	US-10-189-359-14	Sequence 14, Appl
29	568	88.9	3011	12	US-10-296-734-406	Sequence 406, App
30	568	88.9	3011	13	US-10-104-966-1	Sequence 1, Appl
31	568	88.9	3011	14	US-10-259-275-20	Sequence 20, Appl
32	568	88.9	3011	14	US-10-184-150-3	Sequence 3, Appl
33	568	88.9	3011	15	US-10-328-937-3	Sequence 3, Appl
34	568	88.9	3011	16	US-10-719-619-1	Sequence 1, Appl
35	568	88.9	3012	9	US-09-238-076-2	Sequence 2, Appl
36	568	88.9	3012	10	US-09-995-937-2	Sequence 2, Appl
37	568	88.9	3012	10	US-09-917-563-2	Sequence 2, Appl
38	567	88.7	117	9	US-09-851-138-28	Sequence 28, Appl
39	567	88.7	117	12	US-10-651-185-225	Sequence 225, App
40	567	88.7	424	14	US-10-173-480-28	Sequence 28, Appl
41	566	88.6	166	10	US-09-899-046-194	Sequence 194, App
42	566	88.6	166	10	US-09-878-281-194	Sequence 194, App
43	566	88.6	166	12	US-09-873-224-194	Sequence 8, Appl
44	565	88.4	161	12	US-09-306-780-8	Sequence 12, Appl
45	565	88.4	281	12	US-09-306-780-12	Sequence 12, Appl

#### ALIGNMENTS

#### RESULT 1

US-09-873-224-148  
; Sequence 148, Application US/09873224  
; Publication No. US20030064360A1  
; GENERAL INFORMATION:  
; APPLICANT: <Unknown>  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; CORRESPONDENCE ADDRESSES:  
; STREET: Industriepark Zwijnaarde 7, box 4  
; CITY: Ghent  
; COUNTRY: Belgium  
; ZIP: B-9052  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/873,224  
; FILING DATE: 05-Jun-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Innogenetics sa.  
TELEPHONE: 00 32 9 241 07 11  
TELEFAX: 00 32 9 241 07 99  
INFORMATION FOR SEQ ID NO: 148:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 115 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 148:

Alignment Scores:  
Pred. No.: 5,19e-47 Length: 115  
Score: 617.00 Matches: 115  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 96.56% Indels: 0  
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-873-224-148 (1-115)

QY 1 ATAGACACTTCTTAACACAAAGAAACCAAGAAACCAACCCCGGCCACAGG 60  
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsnProGlyHisArg 20  
QY 61 ACCTTAAGTTCCACAGCGCGGTGCAGATCGTTGGTGGTTCACGTTCACACGACAGG 120  
Db 21 ThrLeuSerSerGlnAlaValArgSerLeuValGluPheThrCysTyrHisAlaGly 40  
QY 121 GCCCCAGTTGGTGTGCGTGCAGTGCAGAACATTCGAGCGGTGCACCTCGCAGTA 180  
Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60  
QY 181 GCGCCCAACCCATCCACAGCGCGCGACCGAGCGAGGCTCGTGGTCTCAGCCCGGT 240  
Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80  
QY 241 ACCCTTGGCCCTATATGGAATGAGGCTGCGGTGGGACAGGTGCTCTGTCCCGCC 300  
Db 81 ThrLeuGlyProTyrMetGlyMetArgAlaAlaGlyGlyGlnGlySerCysProArg 100  
QY 301 GCGCTCTCGCCGTGTGGGCGCAATGACCCCGCGCAGGA 345  
Db 101 AlaAlaLeuAlaArgArgGlyAlaGlnMetThrProGlyAlaGly 115

## RESULT 2

US-09-851-138-50  
Sequence 50, Application US/09851138  
Publication No. US20020193508A1  
GENERAL INFORMATION:  
APPLICANT: STUYVER, LIEVEN  
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS  
NUMBER OF SEQUENCES: 207  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ARNOLD, WHITE & DURKEE  
STREET: P.O. BOX 4433  
CITY: HOUSTON  
STATE: TEXAS  
COUNTRY: USA  
ZIP: 77210-4433  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/851,138  
FILING DATE: 09-May-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/836,075  
FILING DATE: <Unknown>  
APPLICATION NUMBER: EP 94870166.9  
FILING DATE: 21 Oct 1994  
APPLICATION NUMBER: EP 95870076.7  
FILING DATE: 28 Jun 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: KAMMERER, PATRICIA A.  
REGISTRATION NUMBER: 29,775  
REFERENCE/DOCKET NUMBER: INNS:004  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 115 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 50:  
US-09-851-138-50

Alignment Scores:  
Pred. No.: 3,34e-46 Length: 115  
Score: 608.00 Matches: 114  
Percent Similarity: 99.13% Conservative: 0  
Best Local Similarity: 99.13% Mismatches: 1  
Query Match: 95.15% Indels: 1  
DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)

QY 1 ATGAGCACTTCTTAACACCAAGAAACCAAGAAACCAACCCCGGCCACAG 59  
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn\*\*\*ArgProGln 20  
QY 60 GACGTTAAGTTCCACAGCGCGGTGCAGATCGTTGGTGGTTCACGTTCACACGACAG 119  
Db 21 AspValLysPheProGlyGlyGlnLeuValGlyValTyrValLeuProArgArg 40  
QY 120 GCCCCAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCGAGCGGTCCGACCTCCAGT 179  
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerTrpAlaGlnProGly 60  
QY 180 AGGCGCAACCCATCCACAGCGCGCGCAACCGAGCGAGGCTCCTGGGCTCAGCCCGGG 239  
Db 61 ArgArgGlnProLysProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80  
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGGACAGGTGCTCTGTCCCGC 299  
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 300 GCGGCTCTCGCCGTGTGGGCGCAATGACCCCGCGCAGG 344  
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

## RESULT 3

US-09-899-046-148  
Sequence 148, Application US/09899046  
Publication No. US20030008274A1  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/899,046



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Db 21 ValysPheProGlyGlyGlnLeuValGlyGlyValTyrValLeuProArgGly 40
Qy 123 CCCAGTTGGTGTGGCGTCAGTCGCGAAGACTTCGAGCGGTGCGCAACTCGCAGTAGG 182
Db 41 ProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGlyArg 60
Qy 183 CGCCAAACCCATCCCGAGGCGCGCCGACCGAGGCGAGGTCTCGGCTCAGCCCGGTAC 242
Db 61 ArgGlnProLeuProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGlyTyr 80
Qy 243 CCTTGGCCCTATATGGGAATAGGGCTGCGGTGGCGGAGGTGGCTCTCTCCCGCGC 302
Db 81 ProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerProArg 100
Qy 303 GGCTCTCGCCCGTGTGGGCGCCCAATAGCCCGCGCGGCGAGG 344
Db 101 GlySerArgProSerTrpGlyProAsnAspProArgArg 114
RESULT 6
US-10-365-620-58
; Sequence 58, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: Tyrell, Lorne
; APPLICANT: George, Rajan
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 58
; LENGTH: 235
; TYPE: PRT
; ORGANISM: HCV Core
US-10-365-620-58
Alignment Scores:
Pred. No.: 3,24e-43 Length: 235
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 15 Gaps: 0
US-09-873-224A-147 (1-345) x US-10-365-620-58 (1-235)
Qy 1 ATGAGCACACTTCTTAAACACAAAGAAACCAAAAGAAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
Qy 60 GACGTTAAGTTCACGCGCGGTGAGTTCGTTGGTGGAGTTTACGTGTACACACGAG 119
Db 51 AspValLysPheProGlyGlyGlnLeuValGlyGlyValTyrLeuLeuProArg 70
Qy 120 GCGCCCGAGTTGGTGTGCGTCAGTCGCGAAGACTTCGAGCGGTGCGAACCCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
Qy 180 AGCGCCACACCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTCGGCTCAGCCCGG 239
Db 91 ArgArgGlnProLeuProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
Qy 240 TACCTTGGCCCTATATGGGAATAGGGCTGCGGTGGCGAGGTGGCTCTGTCTCCCG 299
Db 111 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
Qy 300 CGCGCTCTCGCCCGTGTGGGCGCCCAATAGCCCGCGGCGAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProAspProArgArg 145
RESULT 8
US-10-365-620-60
; Sequence 60, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: Tyrell, Lorne
; APPLICANT: George, Rajan
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
```

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Qy 300 CGCGCTCTCGCCCGTGTGGGCGCCCAATAGCCCGCGGCGAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145
RESULT 7
US-10-365-620-54
; Sequence 54, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: Tyrell, Lorne
; APPLICANT: George, Rajan
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 54
; LENGTH: 249
; TYPE: PRT
; ORGANISM: ORF of HCV Core Protein
US-10-365-620-54
Alignment Scores:
Pred. No.: 3,25e-43 Length: 249
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 15 Gaps: 0
US-09-873-224A-147 (1-345) x US-10-365-620-54 (1-249)
Qy 1 ATGAGCACACTTCTTAAACACAAAGAAACCAAAAGAAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
Qy 60 GACGTTAAGTTCACGCGCGGTGAGTTCGTTGGTGGAGTTTACGTGTACACACGAG 119
Db 51 AspValLysPheProGlyGlyGlnLeuValGlyGlyValTyrLeuLeuProArg 70
Qy 120 GCGCCCGAGTTGGTGTGCGTCAGTCGCGAAGACTTCGAGCGGTGCGAACCCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
Qy 180 AGCGCCACACCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTCGGCTCAGCCCGG 239
Db 91 ArgArgGlnProLeuProLysAlaArgProGluGlyArgThrTrpAlaGlnProGly 110
Qy 240 TACCTTGGCCCTATATGGGAATAGGGCTGCGGTGGCGAGGTGGCTCTGTCTCCCG 299
Db 111 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130
Qy 300 CGCGCTCTCGCCCGTGTGGGCGCCCAATAGCCCGCGGCGAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 145
RESULT 8
US-10-365-620-60
; Sequence 60, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: Tyrell, Lorne
; APPLICANT: George, Rajan
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
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; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 60
; LENGTH: 459
; TYPE: PRT
; ORGANISM: HCV Core-TBD protein
US-10-365-620-60

Alignment Scores:
Pred. No.: 3,39e-43 Length: 459
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-365-620-60 (1-459)
QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 50
QY 60 GACGTTAAGTTCCTCCAGCGCGGTCCAGATCGTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 51 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArg 70
QY 120 GCGCCCAACCATCCAGCGCGGTCCAGATCGTGGTGGAGTTTACGTCTACCAACGAGG 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 90
QY 180 AGCGGCCAACCATCCAGCGCGGTCCAGATCGTGGTGGAGTTTACGTCTACCAACGAGG 239
Db 91 ArgGlySerArgProSerTrpGlyProThrArgLysThrSerGluArgSerGlnProArg 110
QY 240 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGCAGGTGGCTCCTGTCCCGG 299
Db 111 TyrProTrpProLeuTyArgLysGlnIleValGlyGlyValTyLeuLeuProArg 130
QY 300 CGCGCTCTCCCGCTCGTGGGCGCAATGACCCCGCGGCGAGG 344
Db 131 ArgGlySerArgProSerTrpGlyProThrArgLysThrSerGluArgSerGlnProArg 145

RESULT 9
US-10-365-620-56
; Sequence 56, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656,0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56
; LENGTH: 473
; TYPE: PRT
; ORGANISM: ORF of HCV Core-TBD protein
US-10-365-620-56

Alignment Scores:
Pred. No.: 3,39e-43 Length: 473
Score: 575.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 89.36% Indels: 1
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-365-620-56 (1-473)
QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 60 GACGTTAAGTTCCTCCAGCGCGGTCCAGATCGTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArg 40
QY 120 GCGCCCAACCATCCAGCGCGGTCCAGATCGTGGTGGAGTTTACGTCTACCAACGAGG 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 60

US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.: 7,11e-43 Length: 130
Score: 571.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 89.36% Indels: 1
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)
QY 1 ATGAGCACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 60 GACGTTAAGTTCCTCCAGCGCGGTCCAGATCGTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArg 40
QY 120 GCGCCCAACCATCCAGCGCGGTCCAGATCGTGGTGGAGTTTACGTCTACCAACGAGG 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 60
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FEATURE: MISC FEATURE  
NAME/KEY: MISC FEATURE  
LOCATION: (170)..(170)  
OTHER INFORMATION: Xaa is any amino acid  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (174)..(174)  
OTHER INFORMATION: Xaa is any amino acid  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (175)..(175)  
OTHER INFORMATION: Xaa is any amino acid  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (180)..(180)  
OTHER INFORMATION: Xaa is any amino acid  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (226)..(226)  
OTHER INFORMATION: Xaa is any amino acid  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (317)..(317)  
OTHER INFORMATION: Xaa is any amino acid  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (318)..(318)  
OTHER INFORMATION: Xaa is any amino acid  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (319)..(319)  
OTHER INFORMATION: Xaa is any amino acid  
US-10-651-165-199

Alignment Scores:  
Pred. No.: 7,56e-43 Length: 319  
Score: 571.00 Matches: 106  
Percent Similarity: 94.78% Conservative: 3  
Best Local Similarity: 92.17% Mismatches: 6  
Query Match: 89.36% Indels: 1  
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-651-165-199 (1-319)

QY 1 ATGAGCACACTTCTTAACCAAGAAACAAACAAACAAACCAACCC-CGGCCACAG 59  
DB 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20  
QY 60 GACGTTAAGTTCCACAGCGCGCTCAGATCGTTGAGTTTACGTCTACCAACGAGG 119  
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyLeuLeuProArg 40  
QY 120 GCGCCCAAGTTGGTGTGCGTCACTGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGT 179  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60  
QY 180 AGGCGCAACCATCCACAGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCGGG 239  
DB 61 ArgArgGlnProIleProLysAlaArgProGluGlyArgSerTrpAlaGlnProGly 80  
QY 240 TACCTTGGCCCTTATATGGAATGAGGCTGCGGTGCGGAGGTGCTCTCTGCTCCCG 299  
DB 81 TyrProTrpProLeuTyAlaAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 300 CCGCGCTCTGCGCTGTGGGGCCCAATGACCCCGCGCAGG 344  
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 13

US-10-651-165-181  
Sequence 181, Application US/10651165  
Publication No. US2004004787A1  
GENERAL INFORMATION:

APPLICANT: LEROUX-ROELS, Geert  
APPLICANT: DELEYS, Robert  
APPLICANT: MAERTENS, Geert  
TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C  
TITLE OF INVENTION: VIRUS  
FILE REFERENCE: 2551-94  
CURRENT APPLICATION NUMBER: US/10/651,165  
CURRENT FILING DATE: 2003-09-02  
PRIOR APPLICATION NUMBER: US/08/974,690C  
PRIOR FILING DATE: 1997-11-19  
PRIOR APPLICATION NUMBER: PCT/EP94/03555  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EP 93402718.6  
PRIOR FILING DATE: 1993-11-04  
NUMBER OF SEQ ID NOS: 286  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 181  
LENGTH: 450  
TYPE: PRT  
ORGANISM: hepatitis C virus  
US-10-651-165-181

Alignment Scores:  
Pred. No.: 1.17e-42 Length: 450  
Score: 569.00 Matches: 104  
Percent Similarity: 94.78% Conservative: 5  
Best Local Similarity: 90.43% Mismatches: 6  
Query Match: 89.05% Indels: 1  
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-651-165-181 (1-450)

QY 1 ATGAGCACACTTCTTAACCAAGAAACAAACAAACCAACCC-CGGCCACAG 59  
DB 1 MetSerThrIleProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20  
QY 60 GACGTTAAGTTCCACAGCGCGCTCAGATCGTTGAGTTTACGTCTACCAACGAGG 119  
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyLeuLeuProArg 40  
QY 120 GCGCCCAAGTTGGTGTGCGTCACTGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGT 179  
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60  
QY 180 AGGCGCAACCATCCACAGCGCGCGCAACCGAGGCGAGTCTCTGGCTCAGCCCGG 239  
DB 61 ArgArgGlnProIleProLysValArgProGluGlyArgThrTrpAlaGlnProGly 80  
QY 240 TACCTTGGCCCTTATATGGAATGAGGCTGCGGTGCGGAGGTGCTCTCTGCTCCCG 299  
DB 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100  
QY 300 CCGCGCTCTGCGCTGTGGGGCCCAATGACCCCGCGCAGG 344  
DB 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115

RESULT 14

US-09-941-611-23  
Sequence 23, Application US/09941611  
Patent No. US20020106640A1  
GENERAL INFORMATION:

APPLICANT: DELEYS, ROBERT J  
POLLET, DIRK  
MAERTENS, GEERT  
VAN HEUVERSUN, HUGO

TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF  
ANTIBODIES TO HEPATITIS C VIRUS

NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:

ADDRESSEE: NIXON & VANDERHYE P.C.  
STREET: 1100 NORTH GLEBE ROAD  
CITY: ARLINGTON  
STATE: VA

```

; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/941.611
; FILING DATE: 30-Aug-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/391,671
; FILING DATE: 1995-02-21
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-941-611-23

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Alignment Scores:
Pred. No.: 1.33e-42 Length: 2894
Score: 569.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 89.05% Indels: 1
DB: 9 Gaps: 0

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US-09-873-224A-147 (1-345) x US-09-941-611-23 (1-2894)

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QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAGAAACCAACACCC-CGGCCACAG 59
DB 1 MetSerThrIleProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 60 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
DB 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArg 40
QY 120 GCGCCCGAGTGGGTGTGTGTCAGTCCGACAGACTCCGACGGTCCGAACTGCGAGT 179
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGGCCAACCCATCCCGAGGCGCGCCGACCAACCGAGGCGAGTCTCTGGGCTCAGCGCCGG 239
DB 61 ArgArgGlnProIleProLysValArg-gProGluGlyArgThrTrpAlaGlnProGly 80
QY 240 TACCCTTGGCCCTATATGGGATGAGGCTCGGGGTGGGCGAGGTGGCTCTGTCTCCCG 299
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCCAATGACCCCGCGCGAGG 344
DB 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115

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RESULT 15

US-10-044-995-23

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; Sequence 23, Application US/10044995
; Publication No. US20030049685A1
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT J
; POLLET, DIRK
; MAERTENS, GEERT
; VAN HEUVERSWUN, HUGO
; TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
; ANTIBODIES TO HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/044,995
; FILING DATE: 15-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/391,671
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 07/920,286
; FILING DATE: 14-OCT-1992
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-044-995-23

```

```

Alignment Scores:
Pred. No.: 1.33e-42 Length: 2894
Score: 569.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 89.05% Indels: 1
DB: 14 Gaps: 0

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US-09-873-224A-147 (1-345) x US-10-044-995-23 (1-2894)

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QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAGAAACCAACACCC-CGGCCACAG 59
DB 1 MetSerThrIleProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 60 GAGCTTAAGTTCCAGCGCGGTGATCGTTGGTGGAGTTTACGTGTACACGCGAG 119
DB 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArg 40
QY 120 GCGCCCGAGTGGGTGTGTGTCAGTCCGACAGACTCCGACGGTCCGAACTGCGAGT 179

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|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGGCGCCCAACCCATCCCGAGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgThrTrpAlaGlnProGly 80
QY 240 TACCCCTTGGCCCTATATGGGAATGAGGGCTCGCGGTGGCGAGGGTGGCTCTCTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCCGTCTGGGGGCCAAATCACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115
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Search completed: August 10, 2004, 20:52:22  
Job time : 46.5 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

Run on: August 10, 2004, 20:42:52 ; Search time 18 Seconds

(without alignments)  
1978.996 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 115

Sequence: 1 atgagcactctcttaaac.....aaatgaccccgcgagga 345

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Ygapop 60.0 , Ygapext 60.0

Fgapop 6.0 , Fgapext 7.0

Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Word size: 1

Total number of hits satisfying chosen parameters: 663654

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

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-DB=Issued Patents AA -OPMT=fastan -SUFFIX=olin2p.ra1 -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=cligo -TRANS=human40.cdi  
-LIST=45 -DOCALIGN=200 -THR\_SCORE=quality -THR\_MIN=1 -ALIGN=15 -MODE=LOCAL  
-OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000  
-USER=US09873224.cgn 1 1 27 @runat\_10082004\_171006\_17824 -NCPU=6 -ICPU=3  
-NO MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FCGAPOP=6  
-FCGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:

- 1: /cgn2\_6/ptodata/2/iaa/5A.COMB.pep.\*
- 2: /cgn2\_6/ptodata/2/iaa/5B.COMB.pep.\*
- 3: /cgn2\_6/ptodata/2/iaa/6A.COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/iaa/6B.COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/iaa/PCTUS.COMB.pep.\*
- 6: /cgn2\_6/ptodata/2/iaa/backfiles.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	98	85.2	115	3	US-08-836-075A-50
2	83	72.2	100	4	US-08-635-886C-233
3	83	72.2	100	4	US-08-974-690C-233
4	44	38.3	124	1	US-08-244-116B-15
5	44	38.3	191	2	US-08-290-665A-187
6	44	38.3	191	2	US-08-290-665A-188
7	44	38.3	191	2	US-08-290-665A-189
8	44	38.3	191	2	US-08-290-665A-190
9	44	38.3	191	2	US-08-290-665A-191
10	44	38.3	191	2	US-08-290-665A-192
11	44	38.3	191	2	US-08-290-665A-193
12	44	38.3	191	2	US-08-290-665A-195

13	44	38.3	191	2	US-08-290-665A-196	Sequence 196, App
14	44	38.3	191	2	US-08-290-665A-197	Sequence 197, App
15	44	38.3	191	5	PCT-US95-10398-187	Sequence 187, App
16	44	38.3	191	5	PCT-US95-10398-188	Sequence 188, App
17	44	38.3	191	5	PCT-US95-10398-189	Sequence 189, App
18	44	38.3	191	5	PCT-US95-10398-190	Sequence 190, App
19	44	38.3	191	5	PCT-US95-10398-191	Sequence 191, App
20	44	38.3	191	5	PCT-US95-10398-192	Sequence 192, App
21	44	38.3	191	5	PCT-US95-10398-193	Sequence 193, App
22	44	38.3	191	5	PCT-US95-10398-195	Sequence 195, App
23	44	38.3	191	5	PCT-US95-10398-196	Sequence 196, App
24	44	38.3	191	5	PCT-US95-10398-197	Sequence 197, App
25	44	38.3	319	4	US-08-635-886C-217	Sequence 217, App
26	44	38.3	319	4	US-08-635-886C-219	Sequence 219, App
27	44	38.3	319	4	US-08-974-690C-217	Sequence 217, App
28	44	38.3	319	4	US-08-974-690C-219	Sequence 219, App
29	37	32.2	191	2	US-08-290-665A-194	Sequence 194, App
30	37	32.2	191	5	PCT-US95-10398-194	Sequence 194, App
31	34	29.6	42	3	US-08-380-160-10	Sequence 10, Appl
32	34	29.6	46	1	US-08-262-037-27	Sequence 27, Appl
33	34	29.6	56	1	US-08-262-037-28	Sequence 28, Appl
34	34	29.6	61	1	US-08-262-037-29	Sequence 29, Appl
35	34	29.6	89	1	US-07-681-703B-24	Sequence 24, Appl
36	34	29.6	89	2	US-08-407-410B-24	Sequence 24, Appl
37	34	29.6	89	2	US-08-485-500-24	Sequence 24, Appl
38	34	29.6	89	5	PCT-US91-02370-24	Sequence 24, Appl
39	34	29.6	119	1	US-07-681-703B-18	Sequence 18, Appl
40	34	29.6	119	2	US-08-407-410B-18	Sequence 18, Appl
41	34	29.6	119	2	US-08-485-500-18	Sequence 18, Appl
42	34	29.6	119	5	PCT-US91-02370-18	Sequence 18, Appl
43	34	29.6	120	4	US-08-850-328-2	Sequence 2, Appl
44	34	29.6	144	3	US-08-444-818-103	Sequence 103, Appl
45	34	29.6	150	1	US-07-681-703B-16	Sequence 16, Appl

ALIGNMENTS

RESULT 1

US-08-836-075A-50

; Sequence 50, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEBRT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; NUMBER OF INVENTIONS: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.  
 REGISTRATION NUMBER: 29,775  
 REFERENCE/DOCKET NUMBER: INNS:004  
 INFORMATION FOR SEQ ID NO: 50:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 115 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-836-075A-50

Alignment Scores:  
 Pred. No.: 5,09e-83 Length: 115  
 Score: 98.00 Matches: 98  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 85.22% Indels: 0  
 DB: 3 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

QY 51 CGGCCACAGGACGTTAAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGCAGTTTACGTGCTA 110  
 DB 18 ArgProGlnaspVallyspPheProGlyGlyGlnleValGlyValTyValleu 37  
 QY 111 CCACGCGAGGGCCCCCAGTTGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTGCGAA 170  
 DB 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57  
 QY 171 CTTGCGAGTAGGGCCCAACCCATCCCGAGCGCGCGGACCGAGCGGAGTCCCTGGGCT 230  
 DB 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77  
 QY 231 CAGCCCGGGTACCTTGGCCCTTATATGGGAATGAGGGTGGCGGTGGCGAGGTGGCTC 290  
 DB 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97  
 QY 291 CTGTCCCGCGGGCTCTCCCGTGTGGGGCCCAAAATGACCCCGGGCGAGG 344  
 DB 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

## RESULT 2

US-08-835-886C-233  
 ; Sequence 233, Application US/08635886C  
 ; Patent No. 6555114  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LEROUX-ROELS, Geert  
 ; APPLICANT: DELEYS, Robert  
 ; APPLICANT: MAERTENS, Geert  
 ; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C  
 ; FILE REFERENCE: 2752-18  
 ; CURRENT APPLICATION NUMBER: US/08/635,886C  
 ; CURRENT FILING DATE: 1996-04-25  
 ; PRIOR APPLICATION NUMBER: PCT/EP94/03555  
 ; PRIOR FILING DATE: 1994-10-28  
 ; PRIOR APPLICATION NUMBER: EP 93402718.6  
 ; PRIOR FILING DATE: 1993-11-04  
 ; NUMBER OF SEQ ID NOS: 286  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 233  
 ; LENGTH: 100  
 ; TYPE: PRT  
 ; ORGANISM: hepatitis C virus  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (17)..(17)  
 ; OTHER INFORMATION: Xaa is any amino acid  
 US-08-835-886C-233

Alignment Scores:  
 Pred. No.: 4,51e-69 Length: 100  
 Score: 83.00 Matches: 83  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 72.17% Indels: 0  
 DB: 4 Gaps: 0

Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 72.17% Indels: 0  
 DB: 4 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-635-886C-233 (1-100)

QY 51 CGGCCACAGGACGTTAAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGCAGTTTACGTGCTA 110  
 DB 18 ArgProGlnaspVallyspPheProGlyGlyGlnleValGlyValTyValleu 37  
 QY 111 CCACGCGAGGGCCCCCAGTTGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTGCGAA 170  
 DB 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57  
 QY 171 CTTGCGAGTAGGGCCCAACCCATCCCGAGCGCGCGGACCGAGCGGAGTCCCTGGGCT 230  
 DB 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77  
 QY 231 CAGCCCGGGTACCTTGGCCCTTATATGGGAATGAGGGTGGCGGTGGCGAGGTGGCTC 290  
 DB 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97  
 QY 291 CTGTCCCGCGG 299  
 DB 98 LeuSerPro 100

## RESULT 3

US-08-974-690C-233  
 ; Sequence 233, Application US/08974690C  
 ; Patent No. 6613333  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LEROUX-ROELS, Geert  
 ; APPLICANT: DELEYS, Robert  
 ; APPLICANT: MAERTENS, Geert  
 ; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C  
 ; FILE REFERENCE: 2551-94  
 ; CURRENT APPLICATION NUMBER: US/08/974,690C  
 ; CURRENT FILING DATE: 1997-11-19  
 ; PRIOR APPLICATION NUMBER: PCT/EP94/03555  
 ; PRIOR FILING DATE: 1994-10-28  
 ; PRIOR APPLICATION NUMBER: EP 93402718.6  
 ; PRIOR FILING DATE: 1993-11-04  
 ; NUMBER OF SEQ ID NOS: 286  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 233  
 ; LENGTH: 100  
 ; TYPE: PRT  
 ; ORGANISM: hepatitis C virus  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (17)..(17)  
 ; OTHER INFORMATION: Xaa is any amino acid  
 US-08-974-690C-233

Alignment Scores:  
 Pred. No.: 4,51e-69 Length: 100  
 Score: 83.00 Matches: 83  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 72.17% Indels: 0  
 DB: 4 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)

QY 51 CGGCCACAGGACGTTAAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGCAGTTTACGTGCTA 110  
 DB 18 ArgProGlnaspVallyspPheProGlyGlyGlnleValGlyValTyValleu 37  
 QY 111 CCACGCGAGGGCCCCCAGTTGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTGCGAA 170  
 DB 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57

Qy 171 CCTCGCAGTAGGCGCCCAACCCATCCCGAGGCGCGCGAACCAGGCGCAGGCTCCTGGGCT 230  
 Db 58 ProArgSerArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77  
 Qy 231 CAGCCCGGTAACCTTGGCCCCATATGCGGATGAGGCTGCGGTCGGCGAGGCTGCTC 290  
 Db 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97  
 Qy 291 CTGTCCTCCG 299  
 Db 98 LeuSerPro 100

RESULT 4  
 US-08-244-116B-15  
 ; Sequence 15, Application US/08244116B  
 ; Patent No. 5763159  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Simmonds, Peter  
 ; APPLICANT: Chan, Shiu-Wan  
 ; APPLICANT: Yap, Peng L.  
 ; TITLE OF INVENTION: Hepatitis-C Virus Testing  
 ; NUMBER OF SEQUENCES: 53  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
 ; STREET: 1211 East Morehead Street  
 ; CITY: Charlotte  
 ; STATE: No. 5763159th Carolina  
 ; COUNTRY: United States  
 ; ZIP: 28234  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0. Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/244,116B  
 ; FILING DATE: 15-JUL-1994  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/GB92/02143  
 ; FILING DATE: 20-NOV-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Sibley, Kenneth D.  
 ; REGISTRATION NUMBER: 31,665  
 ; REFERENCE/DOCKET NUMBER: 1749-125  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 704-377-1561  
 ; TELEFAX: 704-334-2014  
 ; INFORMATION FOR SEQ ID NO: 15:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 124 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS:  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; HYPOTHETICAL: yes  
 ; FRAGMENT TYPE: internal  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Hepatitis-C virus  
 ; US-08-244-116B-15  
 Alignment Scores:  
 Pred. No.: 7,6e-33 Length: 124  
 Score: 44.00 Matches: 44  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 38.26% Indels: 0  
 DB: 1 Gaps: 0  
 US-09-873-224A-147 (1-345) x US-08-244-116B-15 (1-124)

Qy 213 GAGGCGAGTCTGGGCTCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272

Db 68 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 87  
 Qy 273 GGGTGGCAGGCTGCTCCTGTCCCGCGCGCTCTCGCCCTCGTGGGCGCCAAATGAC 332  
 Db 88 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnasp 107  
 Qy 333 CCGCGCGCAGG 344  
 Db 108 ProArgArgArg 111  
 RESULT 5  
 US-08-290-665A-187  
 ; Sequence 187, Application US/08290665A  
 ; Patent No. 582852  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BURKH, J., MILLER, R.H. AND  
 ; APPLICANT: PURCELL, R.H.  
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
 ; NUMBER OF SEQUENCES: 263  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: MORGAN & FINNEGAN  
 ; STREET: 345 PARK AVENUE  
 ; CITY: NEW YORK  
 ; STATE: NEW YORK  
 ; COUNTRY: USA  
 ; ZIP: 10154  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: FLOPPY DISK  
 ; COMPUTER: IBM PC COMPATIBLE  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: WORDPERFECT 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/290,665A  
 ; FILING DATE: 15-AUG-1994  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: RICHARD W. BORK  
 ; REGISTRATION NUMBER: 36,459  
 ; REFERENCE/DOCKET NUMBER: 2026-4116  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (212) 758-4800  
 ; TELEFAX: (212) 751-6849  
 ; TELEX: 421792  
 ; INFORMATION FOR SEQ ID NO: 187:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 191 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: unknown  
 ; TOPOLOGY: unknown  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: homosaapiens  
 ; INDIVIDUAL ISOLATE: HK10  
 ; US-08-290-665A-187  
 Alignment Scores:  
 Pred. No.: 7,13e-33 Length: 191  
 Score: 44.00 Matches: 44  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 38.26% Indels: 0  
 DB: 2 Gaps: 0  
 US-09-873-224A-147 (1-345) x US-08-290-665A-187 (1-191)

Qy 213 GAGGCGAGTCTGGGCTCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272  
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91





Db 112 ProArgArg 115

RESULT 8

US-08-290-665A-190

; Sequence 190, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290.665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 190:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: DK12

US-08-290-665A-190

Alignment Scores:  
Pred. No.: 7.13e-33 Length: 191  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.26% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)

Qy 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTyrGlyAsnGluGlyCys 91

Qy 273 GGGTGGGCGAGGTGGCTCTCGCCCGCGCGGTCTCGCCCGTCTCGGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

Qy 333 CCGCGCGCAGC 344

Db 112 ProArgArg 115

RESULT 9

US-08-290-665A-191

; Sequence 191, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290.665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 191:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: Z4

US-08-290-665A-191

Alignment Scores:  
Pred. No.: 7.13e-33 Length: 191  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.26% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-191 (1-191)

Qy 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTyrGlyAsnGluGlyCys 91

Qy 273 GGGTGGGCGAGGTGGCTCTCGCCCGCGCGGTCTCGCCCGTCTCGGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

Qy 333 CCGCGCGCAGC 344

Db 112 ProArgArg 115

RESULT 10

US-08-290-665A-192

; Sequence 192, Application US/08290665A

; Patent No. 5882852

```

; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
; US-08-290-665A-192

Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)
QY 213 GAGGCGAGGTCCTGGGCTACGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGGTGGGCGAGGTCCTGTCCTCCCGCGGGCTCTCGCCCGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 11
US-08-290-665A-193
; Sequence 193, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

```

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; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
; US-08-290-665A-193

Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)
QY 213 GAGGCGAGGTCCTGGGCTACGCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGGTGGGCGAGGTCCTGTCCTCCCGCGGGCTCTCGCCCGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 12
US-08-290-665A-195
; Sequence 195, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

```

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154

COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 2026-4116  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792

INFORMATION FOR SEQ ID NO: 195:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 191 amino acids  
TYPE: amino acid

STRANDEDNESS: unknown  
TOPOLOGY: unknown  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: 26

US-08-290-665A-195

Alignment Scores:  
Pred. No.: 7.13e-33 Length: 191  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.26% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-195 (1-191)

Qy 213 GAGGCGAGTCTCTGGCTCAGCCGGTACCTTGGCCCTATATGGGAATCAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

Qy 273 GGGTGGCAGGGTGGCTCTCTGCCGGCGGCTCTCGCCGCTCGTGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

Qy 333 CCCCGCGCAGG 344

Db 112 ProArgArgArg 115

RESULT 13

US-08-290-665A-196  
Sequence 196, Application US/08290665A  
Patent No. 5882852

GENERAL INFORMATION:  
APPLICANT: BURKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
AND THE USE OF REAGENTS DERIVED FROM THESE  
SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELEPHONE: (212) 758-4800  
TELEFAX: (212) 751-6849  
TELEX: 421792

INFORMATION FOR SEQ ID NO: 196:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 191 amino acids  
TYPE: amino acid

STRANDEDNESS: unknown  
TOPOLOGY: unknown  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: 27

US-08-290-665A-196

Alignment Scores:  
Pred. No.: 7.13e-33 Length: 191  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.26% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-196 (1-191)

Qy 213 GAGGCGAGTCTCTGGCTCAGCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

Qy 273 GGGTGGCAGGGTGGCTCTCTGCCGGCGGCTCTCGCCGCTCGTGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

Qy 333 CCCCGCGCAGG 344

Db 112 ProArgArgArg 115

RESULT 14

US-08-290-665A-197  
Sequence 197, Application US/08290665A  
Patent No. 5882852

GENERAL INFORMATION:  
APPLICANT: BURKH, J., MILLER, R.H. AND  
APPLICANT: PURCELL, R.H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
AND THE USE OF REAGENTS DERIVED FROM THESE  
SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE

CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,665A  
FILING DATE: 15-AUG-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 751-6800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 197:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 191 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: DK13  
US-08-290-665A-197

Alignment Scores:  
Pred. No.: 7,13e-33 Length: 191  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.26% Indels: 0  
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-197 (1-191)

QY 213 GAGGCGAGTCTCGGCTACGCCGGGTACCTTGCCCTATATCGGAATGAGGCTGC 272  
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyzProTrpProLeuTyrglyAsnGluGlyCys 91  
QY 273 GGGTGGGCGAGGTGGCTCCTGTCCCGCGGGCTCTCGCCCGTCTGCGGGGCGGCAATGAC 332  
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111  
QY 333 CCGCGGCGCAGG 344  
Db 112 ProArgArgArg 115

## RESULT 15

PCT-US95-10398-187  
Sequence 187, Application PC/TUS9510398  
GENERAL INFORMATION:  
APPLICANT: BUKH, J., MILLER, R. H. AND  
APPLICANT: PURCELL, R. H.  
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED  
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND  
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS  
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE  
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES  
NUMBER OF SEQUENCES: 263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORGAN & FINNEGAN  
STREET: 345 PARK AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10154

COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/10398  
FILING DATE: 15-AUG-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/086,428  
FILING DATE: 29 JUNE 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/290/665  
FILING DATE: 15 AUGUST 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: RICHARD W. BORK  
REGISTRATION NUMBER: 36,459  
REFERENCE/DOCKET NUMBER: 2026-4116  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 751-6800  
TELEFAX: (212) 751-6849  
TELEX: 421792  
INFORMATION FOR SEQ ID NO: 187:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 191 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
ORIGINAL SOURCE:  
ORGANISM: homosapiens  
INDIVIDUAL ISOLATE: HK10  
PCT-US95-10398-187

Alignment Scores:  
Pred. No.: 7,13e-33 Length: 191  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.26% Indels: 0  
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-187 (1-191)

QY 213 GAGGCGAGTCTCGGCTACGCCGGGTACCTTGCCCTATATCGGAATGAGGCTGC 272  
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyzProTrpProLeuTyrglyAsnGluGlyCys 91  
QY 273 GGGTGGGCGAGGTGGCTCCTGTCCCGCGGGCTCTCGCCCGTCTGCGGGGCGGCAATGAC 332  
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111  
QY 333 CCGCGGCGCAGG 344  
Db 112 ProArgArgArg 115

Search completed: August 10, 2004, 20:53:11  
Job time : 23 secs

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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: August 10, 2004, 20:50:48 ; Search time 43.5 Seconds

(without alignments)  
4975.660 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 115

Sequence: 1 atgagcacattcctaacc.....aaatgaccccgcgaggga 345

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Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1291235 seqs, 313682936 residues

Word size: 1

Total number of hits satisfying chosen parameters: 2479628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:

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-Q=/cgn2\_1/USFO.spool\_P/US09873224/runat\_10082004\_171007\_17858/app\_query.fasta\_1.519  
-DB=Published Applications\_AA -QFWT=fastan -SUFFIX=olin2p.rapb -MINMATCH=0.1  
-LOOPCLS=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo  
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR\_MIN=1  
-ALIGN=15 -MODE=LOCAL -OUTFWT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09873224 @CGN 1 1 13 @runat 10082004 171007 17858  
-NCPU=6 -ICPU=3 -NO\_MMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100  
-LOGLOG -DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications AA:

1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pcp:\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pcp:\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pcp:\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pcp:\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pcp:\*  
6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pcp:\*  
7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pcp:\*  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pcp:\*  
9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pcp:\*  
10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pcp:\*  
11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pcp:\*  
12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pcp:\*  
13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pcp:\*  
14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pcp:\*  
15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pcp:\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pcp:\*  
17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pcp:\*  
18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pcp:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
§					

1	115	100.0	115	12	US-09-873-224-148	Sequence 148, App
2	98	85.2	115	9	US-09-851-138-50	Sequence 50, Appl
3	98	85.2	115	10	US-09-899-046-148	Sequence 148, App
4	98	85.2	115	10	US-09-878-281-148	Sequence 148, App
5	83	72.2	100	12	US-10-651-165-233	Sequence 233, App
6	44	38.3	124	14	US-10-396-964-15	Sequence 15, Appl
7	44	38.3	166	10	US-09-899-046-164	Sequence 164, App
8	44	38.3	166	12	US-09-878-281-164	Sequence 164, App
9	44	38.3	166	10	US-09-873-224-164	Sequence 164, App
10	44	38.3	189	12	US-10-450-649-9	Sequence 9, Appl
11	44	38.3	319	12	US-10-651-165-217	Sequence 217, App
12	44	38.3	319	12	US-10-651-165-219	Sequence 219, App
13	38	33.0	130	14	US-10-268-569-19	Sequence 19, Appl
14	38	33.0	161	14	US-10-230-381-5	Sequence 5, Appl
15	38	33.0	191	14	US-10-230-381-53	Sequence 53, Appl
16	38	33.0	191	14	US-10-230-381-54	Sequence 54, Appl
17	38	33.0	191	14	US-10-230-381-55	Sequence 55, Appl
18	38	33.0	193	14	US-10-230-381-50	Sequence 50, Appl
19	38	33.0	193	14	US-10-230-381-51	Sequence 51, Appl
20	38	33.0	209	14	US-10-230-381-52	Sequence 52, Appl
21	38	33.0	209	14	US-10-230-381-3	Sequence 3, Appl
22	38	33.0	209	14	US-10-230-381-7	Sequence 7, Appl
23	38	33.0	373	14	US-10-230-381-11	Sequence 11, Appl
24	38	33.0	373	14	US-10-230-381-13	Sequence 13, Appl
25	38	33.0	373	14	US-10-230-381-15	Sequence 15, Appl
26	36	31.3	166	10	US-09-899-046-194	Sequence 194, App
27	36	31.3	166	10	US-09-878-281-194	Sequence 194, App
28	36	31.3	166	12	US-09-873-224-194	Sequence 194, App
29	34	29.6	113	9	US-09-921-397-78	Sequence 78, Appl
30	34	29.6	122	14	US-10-098-857B-1	Sequence 1, Appl
31	34	29.6	126	10	US-09-899-046-166	Sequence 166, App
32	34	29.6	126	10	US-09-878-281-166	Sequence 166, App
33	34	29.6	126	12	US-09-873-224-166	Sequence 166, App
34	34	29.6	151	14	US-10-232-129-14	Sequence 14, Appl
35	34	29.6	182	9	US-09-929-955-2	Sequence 2, Appl
36	34	29.6	182	13	US-10-104-966-2	Sequence 2, Appl
37	34	29.6	182	16	US-10-719-619-2	Sequence 2, Appl
38	34	29.6	190	12	US-10-450-649-7	Sequence 7, Appl
39	34	29.6	190	12	US-10-288-562-1	Sequence 1, Appl
40	34	29.6	235	15	US-10-385-620-58	Sequence 58, Appl
41	34	29.6	249	15	US-10-385-620-54	Sequence 54, Appl
42	34	29.6	258	12	US-10-651-165-196	Sequence 196, App
43	34	29.6	319	12	US-10-651-165-218	Sequence 218, App
44	34	29.6	424	14	US-10-173-480-28	Sequence 28, Appl
45	34	29.6	450	12	US-10-651-165-179	Sequence 179, App

#### ALIGNMENTS

RESULT 1  
US-09-873-224-148  
US-09-873-224-148, Application US/09873224  
Publication No. US20030064360A1

GENERAL INFORMATION:

APPLICANT: <Unknown>

TITLE OF INVENTION: New sequences of hepatitis C virus

genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

CORRESPONDENCE ADDRESS:

STREET: Industriepark Zwijnaarde 7, box 4

CITY: Ghent

COUNTRY: Belgium

ZIP: B-9052

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/873,224

FILING DATE: 05-Jun-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455  
 FILING DATE: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Innogenetics SA  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 00 32 9 241 07 11  
 TELEFAX: 00 32 9 241 07 99  
 INFORMATION FOR SEQ ID NO: 148:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 115 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 148:  
 US-09-873-224-148

Alignment Scores:  
 Pred. No.: 8,87e-98 Length: 115  
 Score: 115.00 Matches: 115  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-873-224-148 (1-115)

QY 1 ATGACGACACTTCTTAACACCAAGAAACCAAAAGAAACCAACACCCCGCCACAGG 60  
 Db 1 MetSerThrLeuProLysProGlnArgSerLeuValGluPheThrCysThrHisAlaGly 20  
 QY 61 ACCTTAAGTCCCGAGCGCGGTTCAGATGTTGGTGGAGTTTACGTGCTACACGCGAGG 120  
 Db 21 ThrLeuSerSerGlnAlaAlaValArgSerLeuValGluPheThrCysThrHisAlaGly 40  
 QY 121 GCCCCAGTGGTGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCCAGTA 180  
 Db 41 AlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsnLeuAlaVal 60  
 QY 181 GCGCCCAACCATCCCGAGGCGCGCGCAACCGAGGCGAGTCTCGGGCTACCGCGGT 240  
 Db 61 GlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeuSerProGly 80  
 QY 241 ACCCTTGGCCCTTATATGGAATGAGGCTGCGGGTGGCGAGGTCGCTCCCTCCCGC 300  
 Db 81 ThrLeuGlyProTyMetGlyMetAlaAlaAlaGlyGlyGlnGlySerCysProArg 100  
 QY 301 GCGGCTCCCGCTGCTGGGCGCCAAATGACCCCGCGCAGGA 345  
 Db 101 AlaAlaLeuAlaArgGlyAlaGlnMetThrProGlyAlaGly 115

## RESULT 2

US-09-851-138-50  
 Sequence 50, Application US/09851138  
 Publication No. US20020183508A1  
 GENERAL INFORMATION:  
 APPLICANT: STUYVERS, GERT  
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS  
 NUMBER OF SEQUENCES: 207  
 CORRESPONDENCE ADDRESS:  
 ADDRESSER: ARNOLD, WHITE & DURKEE  
 STREET: P.O. BOX 4433  
 CITY: HOUSTON  
 STATE: TEXAS  
 COUNTRY: USA  
 ZIP: 77210-4433

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/851,138  
 FILING DATE: 09-May-2001  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/836,075  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: EP 94870166.9  
 FILING DATE: 21 Oct 1994  
 APPLICATION NUMBER: EP 95870076.7  
 FILING DATE: 28 Jun 1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: KAMMERER, PATRICIA A.  
 REGISTRATION NUMBER: 29,775  
 REFERENCE/DOCKET NUMBER: INNS:004  
 INFORMATION FOR SEQ ID NO: 50:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 115 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 SEQUENCE DESCRIPTION: SEQ ID NO: 50:  
 US-09-851-138-50

Alignment Scores:  
 Pred. No.: 5,14e-82 Length: 115  
 Score: 98.00 Matches: 98  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 85.22% Indels: 0  
 DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)

QY 51 CGGCACAGACAGTAACTTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTA 110  
 Db 18 ArgProGlnAspValLysPheProGlyGlyGluValGluValGlyValTyrValLeu 37  
 QY 111 CCAGCAGGCGCCCCCAGTTGGGTGTCGTCAGTGCAGCAAGACTTCCGAGCGGTCCGAA 170  
 Db 38 ProArgargGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57  
 QY 171 CCTCGCAGTAGGCGCCAAACCCATCCCGAGGCGCGCCAGAACCGAGGCGAGGTCTCGGCT 230  
 Db 58 ProArgSerArgArgGlnProLleProArgAlaArgThrGluGlyArgSerTrpAla 77  
 QY 231 CAGCCCGGTACCTTGGCCCTTATATGGGAATGAGGCTGCGGGTGGCGAGGTCGCTC 290  
 Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97  
 QY 291 CTGTCCCGCGCGCTCTCGCCGCTGTCGGGCCCAATGACCCCGCGCAGG 344  
 Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

## RESULT 3

US-09-899-046-148  
 Sequence 148, Application US/09899046  
 Publication No. US20030006274A1  
 GENERAL INFORMATION:  
 APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus  
 TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
 NUMBER OF SEQUENCES: 270  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/899,046  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/362,455  
 FILING DATE:

INFORMATION FOR SEQ ID NO: 148:

SEQUENCE CHARACTERISTICS:  
LENGTH: 115 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-09-899-046-148

Alignment Scores:  
Pred. No.: 5,14e-82  
Score: 98.00  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 85.22%  
DB: 10

US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)

QY 51 CGGCCACAGACGTTAAAGTTCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTA 110  
Db 18 ArgProGlnAspVallyspheProGlyGlyGlyGlnleValGlyValTyValLeu 37  
QY 111 CCACGAGGGGCCCGCCAGTTCGGTGGTGGTCCAGTCCGAGACTCCGAGCGGTGCGAA 170  
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57  
QY 171 CTGCGAGTAGCGCCCAACCATCCCGAGGGCGCGCCGAAACCGAGGGCAGGTCTGGGCT 230  
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyA-GSerTrpAla 77  
QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGGCGGAGGTGGCTC 290  
Db 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97  
QY 291 CTGTCCCGCGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGG 344  
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 4

US-09-878-281-148  
Sequence 148 Application US/09878281  
Publication No. US20030032005A1  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/878,281  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 148:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 115 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

Alignment Scores:  
Pred. No.: 5,14e-82  
Score: 98.00  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 85.22%  
DB: 10

US-09-873-224A-147 (1-345) x US-09-878-281-148 (1-115)

QY 51 CGGCCACAGACGTTAAAGTTCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTA 110  
Db 18 ArgProGlnAspVallyspheProGlyGlyGlyGlnleValGlyValTyValLeu 37  
QY 111 CCACGAGGGGCCCGCCAGTTCGGTGGTGGTCCAGTCCGAGACTCCGAGCGGTGCGAA 170  
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57  
QY 171 CTGCGAGTAGCGCCCAACCATCCCGAGGGCGCGCCGAAACCGAGGGCAGGTCTGGGCT 230  
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyA-GSerTrpAla 77  
QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGGCGGAGGTGGCTC 290  
Db 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97  
QY 291 CTGTCCCGCGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGG 344  
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 5

US-10-651-165-233  
Sequence 233 Application US/10651165  
Publication No. US20040047877A1  
GENERAL INFORMATION:  
APPLICANT: LEROUX-ROELS, Geert  
APPLICANT: DELEYS, Robert  
APPLICANT: MAERTENS, Geert  
TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C  
TITLE OF INVENTION: VIRUS  
FILE REFERENCE: 2551-94  
CURRENT APPLICATION NUMBER: US/10/651,165  
CURRENT FILING DATE: 2003-09-02  
PRIOR APPLICATION NUMBER: US/08/974,690C  
PRIOR FILING DATE: 1997-11-19  
PRIOR APPLICATION NUMBER: PCT/EP94/03555  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EP 93402718.6  
PRIOR FILING DATE: 1993-11-04  
NUMBER OF SEQ ID NOS: 286  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 233  
LENGTH: 100  
TYPE: PRT  
ORGANISM: hepatitis C virus  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (17)-(17)  
OTHER INFORMATION: Xaa is any amino acid  
US-10-651-165-233

Alignment Scores:  
Pred. No.: 4,25e-68  
Score: 83.00  
Percent Similarity: 100.00%  
Best Local Similarity: 100.00%  
Query Match: 72.17%  
DB: 12

US-09-873-224A-147 (1-345) x US-10-651-165-233 (1-100)

QY 51 CGGCCACAGACGTTAAAGTTCCCGAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTA 110  
Db 18 ArgProGlnAspVallyspheProGlyGlyGlyGlnleValGlyValTyValLeu 37  
QY 111 CCACGAGGGGCCCGCCAGTTCGGTGGTGGTCCAGTCCGAGACTCCGAGCGGTGCGAA 170  
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57  
QY 171 CTGCGAGTAGCGCCCAACCATCCCGAGGGCGCGCCGAAACCGAGGGCAGGTCTGGGCT 230

Db 58 ProArgSerArgAGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77  
 QY 231 CAGCCCGGTACCTTGGCCCTATATGCGAATAGAGGCTCGCGGTGGGAGGCTGCTC 290  
 Db 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97  
 QY 291 CTGTCCCGC 299  
 Db 98 LeuSerPro 100

## RESULT 6

US-10-396-964-15  
 ; Sequence 15, Application US/10396964  
 ; Publication No. US20030198946A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Simmonds, Peter  
 ; APPLICANT: Chan, Shiu-Wan  
 ; APPLICANT: Yap, Peng L.  
 ; TITLE OF INVENTION: Hepatitis-C Virus Testing  
 ; NUMBER OF SEQUENCES: 53  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
 ; STREET: 1211 East Morehead Street  
 ; CITY: Charlotte  
 ; STATE: No. US20030198946A1th Carolina  
 ; COUNTRY: United States  
 ; ZIP: 28234  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/396,964  
 ; FILING DATE: 23-MARCH-2003  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/244,116B  
 ; FILING DATE: 15-JUL-1994  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/GB92/02143  
 ; FILING DATE: 20-NOV-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Sibley, Kenneth D.  
 ; REGISTRATION NUMBER: 31,665  
 ; REFERENCE/DOCKET NUMBER: 1749-125  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 704-377-1561  
 ; TELEFAX: 704-334-2014  
 ; INFORMATION FOR SEQ ID NO: 15:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 124 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS:  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; HYPOTHEICAL: yes  
 ; FRAGMENT TYPE: internal  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Hepatitis-C virus  
 ; US-10-396-964-15

Alignment Scores:  
 Pred. No.: 5,96e-32 Length: 124  
 Score: 44.00 Matches: 44  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 38.26% Indels: 0  
 DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-396-964-15 (1-124)

QY 213 GAGGCGAGTCTGGGCTCAGCCCGGTACCCCTTGGCCCTATATGGAATGAGGCTGC 272  
 Db 68 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 87  
 QY 273 GGGTGGGAGGAGTGGCTCTGTCTCCCGCGGCTCTCGCCCGTCTCGTGGGGCCCAAAATGAC 332  
 Db 88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107  
 QY 333 CCGCGGCGCAGG 344  
 Db 108 ProArgArgArg 111

## RESULT 7

US-09-899-046-164  
 ; Sequence 164, Application US/09899046  
 ; Publication No. US20030008274A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT:  
 ; TITLE OF INVENTION: New sequences of hepatitis C virus  
 ; NUMBER OF SEQUENCES: 270  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/899,046  
 ; FILING DATE:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/362,455  
 ; FILING DATE:  
 ; INFORMATION FOR SEQ ID NO: 164:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 166 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-899-046-164

## Alignment Scores:

Pred. No.: 5,71e-32 Length: 166  
 Score: 44.00 Matches: 44  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 38.26% Indels: 0  
 DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-164 (1-166)

QY 213 GAGGCGAGTCTGGGCTCAGCCCGGTACCCCTTGGCCCTATATGGAATGAGGCTGC 272  
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91  
 QY 273 GGGTGGGAGGAGTGGCTCTGTCTCCCGCGGCTCTCGCCCGTCTCGTGGGGCCCAAAATGAC 332  
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111  
 QY 333 CCGCGGCGCAGG 344  
 Db 112 ProArgArgArg 115

## RESULT 8

US-09-878-281-164  
 ; Sequence 164, Application US/09878281  
 ; Publication No. US20030032005A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT:  
 ; TITLE OF INVENTION: New sequences of hepatitis C virus  
 ; NUMBER OF SEQUENCES: 270  
 ; COMPUTER READABLE FORM:



MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA: US/09/878,281  
APPLICATION NUMBER: US/09/878,281  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 164:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 166 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-878-281-164

Alignment Scores:  
Pred. No.: 5,71e-32 Length: 166  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.26% Indels: 0  
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281-164 (1-166)

QY 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGGTGC 272  
DB 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91  
QY 273 GGGTGGGAGGGTGGCTCTCTCCCGCGGGCTCTCCCGCTCGTGGGGCCCAATGAC 332  
DB 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111  
QY 333 CCCGGCGCAGG 344  
DB 112 ProArgArgArg 115

RESULT 9  
US-09-873-224-164  
Sequence 164, Application US/09873224  
Publication No. US20030064360A1  
GENERAL INFORMATION:  
APPLICANT: <Unknown>  
TITLE OF INVENTION: New sequences of hepatitis C virus  
NUMBER OF SEQUENCES: 270  
CORRESPONDENCE ADDRESS:  
STREET: Industriepark Zwijnaarde 7, box 4  
CITY: Ghent  
COUNTRY: Belgium  
ZIP: B-9052  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA: US/09/873,224  
APPLICATION NUMBER: 08/362,455  
FILING DATE: 05-Jun-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Innogenetics sa.  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 00 32 9 241 07 11  
TELEFAX: 00 32 9 241 07 99  
INFORMATION FOR SEQ ID NO: 164:  
SEQUENCE CHARACTERISTICS:

LENGTH: 166 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 164:  
US-09-873-224-164

Alignment Scores:  
Pred. No.: 5,71e-32 Length: 166  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.26% Indels: 0  
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-873-224-164 (1-166)

QY 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGGTGC 272  
DB 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91  
QY 273 GGGTGGGAGGGTGGCTCTCTCCCGCGGGCTCTCCCGCTCGTGGGGCCCAATGAC 332  
DB 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111  
QY 333 CCCGGCGCAGG 344  
DB 112 ProArgArgArg 115

RESULT 10  
US-10-450-649-9  
Sequence 9, Application US/10450649  
Publication No. US20040052818A1  
GENERAL INFORMATION:  
APPLICANT: Mandl, Christian  
TITLE OF INVENTION: ATTENUATED LIVE VACCINE  
FILE REFERENCE: U 014666-0  
CURRENT APPLICATION NUMBER: US/10/450,649  
CURRENT FILING DATE: 2003-06-16  
PRIOR APPLICATION NUMBER: PCT/AT02/00046  
PRIOR FILING DATE: 2002-02-11  
PRIOR APPLICATION NUMBER: A 272/2001 AT  
PRIOR FILING DATE: 2001-02-21  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 9  
TYPE: PRI  
LENGTH: 189  
ORGANISM: Hepatitis C Virus 3  
US-10-450-649-9

Alignment Scores:  
Pred. No.: 5,6e-32 Length: 189  
Score: 44.00 Matches: 44  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 38.26% Indels: 0  
DB: 12 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-450-649-9 (1-189)

QY 213 GAGGCGAGTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGGTGC 272  
DB 71 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 90  
QY 273 GGGTGGGAGGGTGGCTCTCTCCCGCGGGCTCTCCCGCTCGTGGGGCCCAATGAC 332  
DB 91 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 110  
QY 333 CCCGGCGCAGG 344  
DB 111 ProArgArgArg 114



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; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-230-381-5

Alignment Scores:
Pred. No.:      2.1e-26      Length:      161
Score:          38.00      Matches:      38
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match:    33.04%      Indels:    0
DB:             14         Gaps:      0

US-09-873-224A-147 (1-345) x US-10-230-381-5 (1-161)

QY 231 CAGCCCGGTACCTTGGCCCTATATCGGAATGAGGGCTCGGGTGGCAGGGTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97

QY 291 CTGTCCCGCGCGGCTCTCGCCCTCTGTGGGCCCCAAATGACCCCGGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 15
US-10-230-381-53
; Sequence 53, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INXX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-53

Alignment Scores:
Pred. No.:      2.05e-26      Length:      191
Score:          38.00      Matches:      38
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match:    33.04%      Indels:    0
DB:             14         Gaps:      0

US-09-873-224A-147 (1-345) x US-10-230-381-53 (1-191)

QY 231 CAGCCCGGTACCTTGGCCCTATATCGGAATGAGGGCTCGGGTGGCAGGGTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97

QY 291 CTGTCCCGCGCGGCTCTCGCCCTCTGTGGGCCCCAAATGACCCCGGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

Search completed: August 10, 2004, 21:01:47
Job time : 44.5 secs
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B/GNR